CONSTRUCTION NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

Price advances are indicated by **heavy type**; declines by *italics*.

PIG IRON—

	Current	One Month Ago
CINCINNATI		
No. 2 Southern	$30.35	$30.35
Northern Basic	27.55	27.55
Southern Ohio No. 2	28.55	28.25
NEW YORK, tidewater delivery		
2X Virginia (silicon 2.25 to 2.75)	32.50	32.50
Southern No. 2 (silicon 2.25 to 2.75)	34.70	34.90
BIRMINGHAM		
No. 2 Foundry	25.75	25.75
PHILADELPHIA		
Eastern Pa. 2X (silicon 2.25 to 2.75)	31.90*	31.90*
Virginia No. 2	33.25†	33.25†
Basic	29.65*	29.65*
Grey Forge	29.65*	29.65*
CHICAGO		
No. 2 Foundry Local	26.75	26.75
No. 2 Foundry Southern	33.00	33.00
PITTSBURGH, including freight charge from the Valley		
No. 2 Foundry Valley	26.25	26.25
Basic	25.75	25.75
Bessemer	29.35	29.35

*F. o. b. furnace. † Delivered.

RAILWAY SUPPLIES

STEEL RAILS—The following quotations are per ton f. o. b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh		Chicago	
	Current	One Year Ago	Current	One Year Ago
Standard bessemer rails	$45.00	$65.00	$45.00	$65.00
Standard openhearth rails	47.00	67.00	47.00	67.00
Light rails, 8 to 10 lb.	2.58½*	3.36*	2.83½*	3.36*
Light rails, 12 to 14 lb.	2.54*	3.09*	2.79*	3.09*
Light rails, 25 to 45 lb.	2.45*	3.00*	2.70*	3.00*

*Per 100 lb.

TRACK SUPPLIES—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Pittsburgh				
	Current	One Year Ago	Chicago	St. Louis	San Francisco
Standard spikes, ⅝-in. and larger	$3.25	$3.90	$4.27	$5.04	$6.15
Track bolts	4.90	4.90	5.17	Premium	7.20
Standard section angle bars	3.00	3.25	4.22	Premium	4.60

RAILWAY TIES—For fair-sized orders, the following prices per tie hold:

		7 In. x 9 In. by 8 Ft. 6 In.	6 In. x 8 In by 8 Ft.
Chicago	Plain	$1.48	$1.33
San Francisco	Douglas Fir—Green	1.35	.96
San Francisco	Douglas Fir—Creosoted	2.70	1.92

Prices per tie at Missouri mills; St. Louis prices about 25c. higher:

Untreated A Grade White Oak 6x8x8		Untreated A Grade Red Oak 6x8x8	
No. 1	$0.70	No. 1	$0.55
No. 2	.80	No. 2	.65
No. 3	.90	No. 3	.75
No. 4	.98		
7x9x8 white oak			1.05
7x9x8 red oak (No. 4)	$0.80	No. 5	.87

Note.—Add 36c. each for treatment.

PIPE

STEEL—From warehouses at the places named the following discounts hold for steel pipe:

	Black		
	New York	Chicago	St. Louis
¼ to 3 in. butt welded	47%	46½%	45%
2½ to 6 in. lap welded	42%	42½%	41½%

	Galvanized		
	New York	Chicago	St. Louis
¼ to 3 in. butt welded	31%	31%	30½%
2½ to 6 in. lap welded	27%	27½%	27½%

Malleable fittings, Class B and C, from New York stock sell at +15% list prices. Cast iron, standard sizes, 10% off.

CAST-IRON PIPE—The following are prices per net ton for carload lots:

	New York					
	Current	One Month Ago	One Year Ago	Chicago	St. Louis	San Francisco	Dallas
4 in.	$60.70	$60.70	$58.35	$59.80	$53.00	$77.55	$65.00
6 in. and over	57.70	57.70	55.35	56.80	50.00	74.55	62.00

Gas pipe and 16-ft. lengths are $1 per ton extra.

CLAY DRAIN TILE—The following prices are per 1000 lin ft.:

	New York					
Size, In.	Current	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$35.00	$35.00	$22.50	$30.00		$33.44
4	51.00	51.00	27.00	40.00	$45.00	50.16
5	65.00	65.00	45.00	50.00	65.00	62.70
6	90.00	90.00	55.00	60.00	90.00	83.60
8	130.00	130.00	100.00	80.80	150.00	143.76

SEWER PIPE—The following prices are in cents per foot for carload lots.

	New York					
Size, In.	Current	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$0.09	$0.111		$0.125	$0.09	$0.132
4	.09			.125	.15	.132
5	.135	.1665		.175	.1875	.207
6	.135		$0.16	.175	.225	.207
8	.21	.259	.21	.25	.3475	.2875
10	.315	.3885	.29	.375	.45	.4025
12	.405	.4995	.37	.475	.60	.5175
15	.54	.666	.56	.63	.9375	.7475
18	.75	.925	.91	1.00	1.275	.9775
20	.90	1.11	1.14	1.20	1.71	1.15
22	1.20	1.48	1.46	1.60		1.495
24	1.485	1.665	1.56	1.80	2.125	1.725
27	2.145	2.47	1.90	2.75		2.5875
30	2.376	2.736	2.57	3.45		3.1625
33	3.15	3.42	3.09	4.00		4.025
36	3.5875	3.895	3.37	4.35		4.60

	3	5	8	12	24	36
Boston	$0.093	$0.1395	$0.217	$0.4186	$1.395	$4.6125
St. Paul	12	18	28	45	2.00	4.75
Denver	10½*	16	25	42½	1.57½	
Seattle	15		33½	64	2.00	
Kansas City	12	18	25	50	1.80	4.60
New Orleans			49 per cent. off list			
Los Angeles	.047	.076	136	.25	90	
Atlanta			54 per cent. off list			

*4-in.

ROAD AND PAVING MATERIALS

ROAD OILS—Following are prices per gallon in tank cars 8000 gal. minimum f.o.b. place named:

	Current	One Month Ago
New York, 45-65% asphalt	*$0.05*	$0.06½
New York, liquid asphalt	*.06½*	07½
New York, binder	*.07*	07½
New York, flux	*.05*	06½
St. Louis, 45-50% asphalt	.06	
Chicago, 15-20% asphalt	.10	.10
Chicago, 100% dust layer	.11	.11
Dallas, 40-50% asphalt	.09	.09
Dallas, 60-70% asphalt	.10	.10
Dallas, 75-90% asphalt	.11	.11
San Francisco, 75-95% asphalt, per bbl	2.10	2.10

ASPHALTUM—Price per ton in packages and bulk in carload lots:

	Brand	Package	Bulk
New York	Texaco	*$20.00*	*$16.00*
Chicago	Mexican	35.50	33.50
San Francisco	California	17.00	13.75
Dallas	Texaco and Mexican	32.00	30.00
Seattle	D grade	23.10	
Denver	Trinidad	*48.00*	
Denver	California	38.00	
St. Paul	Stanolind		26.00
Kansas City	Trinidad	32.50	
Kansas City	Mexican or Magnolia	27-28	25-26
Los Angeles	D grade		13.50
St. Louis	Stanolind	*24.90*	*18.40*

PAVING STONE—

Chicago	About 4x8x4 dressed	2.70	sq.yd.
	About 4x8x4 common	2.35	sq.yd.
San Francisco	Basalt block 4x7x8	57.75	per M
Kansas City	Limestone	2.75	sq.yd.
Boston	5-in. granite	110.00	per M
St. Paul	Sandstone	1.75	sq.yd.
Atlanta	Granite	1.70	sq.yd.
Salisbury, N. C.	Std. granite, quarry	62.50	per M

FLAGGING—

New York	Bronx	$0.20	sq.ft.
	Manhattan	.21	sq.ft.
	Queens, 5 ft. square	.20	sq.ft.
	5x20-in. cross-walk	.70	lin.ft.
Chicago	18 in. wide	.80	lin.ft.

WOOD BLOCK PAVING—

	Size of Block	Treatment	Per Sq.Yd.
New York	3½	16	$3.25
New York	4	16	3.50
Chicago	4	16	3.10
Chicago	3½	16	2.95
Chicago	City specifications		3.10
St. Louis	3½	16	2.25
St. Louis	4	16	2.50
St. Louis, Minneapolis spec.	3½		1.94
St. Louis, Minneapolis spec.	4		2.25
Seattle	4	16	2.55
Kansas City	4	16	3.00
St. Paul	Minneapolis specifications		*3.20*
Dallas	3½	18	3.17
Dallas	4	18	3.56
New Orleans	3½	16	2.63
New Orlea	4	16	3.00

CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yd.

	Gravel 1½ In. Current	Gravel 1½ In. One Yr. Ago	Gravel ¾ In. Current	Gravel ¾ In. One Yr. Ago	Sand Current	Sand One Yr. Ago
New York	$2.00	$2.00	$2.00	$2.00	$1.25	$1.25
Denver	1.60	1.50	1.60	1.50	1.10	1.05
Chicago	2.00	1.50	.....	1.50	1.10	1.50
Kansas City	2.50	2.15	3.00	2.60	1.00†	1.00
St. Louis*	1.76	.90	1.82	.90	1.68	.70†
Seattle	1.25	1.00	1.25	1.00	1.25	1.00
Dallas	2.25	2.00	2.25	2.00	1.35	1.40
St. Paul	1.25	1.00	1.35	1.40	.60	.50
San Francisco	1.15	1.00	1.15	1.00	1.15	1.00
Boston	1.65	1.65	1.75	1.75	1.00	.90
New Orleans	2.75	.....	2.75	.....	1.50	.....
Los Angeles	1.02	.85	1.02	.85	.70	.65
Atlanta	2.40	1.75	2.40	2.35	1.12	.75

*Fine white sand, Pacific and Ottawa per ton, $6. †Kaw River sand is $1.50 per yd.

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In. Current	1½ In. One Year Ago	¾ In. Current	¾ In. One Year Ago
New York	$1.65-1.75	$1.60	$1.75-1.85	$1.75
Chicago	1.60	1.50	1.70	1.50
St. Louis	1.35	1.08	1.35	1.08
Dallas	2.25	1.51	2.25	1.55
San Francisco	1.15	1.00	1.15	1.00
Boston	3.00*	2.10	3.00*	2.20
St. Paul	1.15†	1.00	1.25†	1.10
Denver	.....	1.50	1.60	1.50
Kansas City	1.70	1.60	1.80	1.70
Seattle	.....	1.10	1.50	1.10
Atlanta	2.35*	1.85	2.60*	2.35
Los Angeles	1.12	1.05	1.12	1.15

*Per ton at crusher. †Limestone; traprock, $1.60 and $1.80 per ton for 1½ and ¾-in., respectfully.

LIME—Warehouse prices:

	Hydrated per Ton Finished	Hydrated per Ton Common	Lump per 300-Lb. Barrel Finished	Lump per 300-Lb. Barrel Common
New York	$17.50	$14.50	$2.90	$2.65
Kansas City	21.00	.....	.....	2.20*
Chicago	18.00	17.50	1.80*	1.10*
St. Louis	22.00	18.00	.....	1.75*
Boston	22.50	18.25	3.65	3.30
Dallas	2.25*	1.25*	.....	.....
San Francisco	19.00	.....	.....	2.00†
St. Paul	23.00	19.50	1.60*	1.50*
New Orleans	.....	.....	.....	1.65*
Atlanta	.....	18.50	.....	1.50*
Los Angeles	.....	.....	3.05†	2.80‡
Denver	.....	26.25	.....	2.50*

* 200-lb. barrels. † Per 180-lb. barrel. ‡ Per ton.

NOTE—Refund of 10c. per barrel.

NATURAL CEMENT—Price to dealers for 500 bbl. or over, f.o.b., exclusive of bags:

St. Paul (Austin)	$1.55
Kansas City (Ft. Scott)	1.30
New Orleans	2.52

PORTLAND CEMENT—Current prices are for barrels in carload lots, without bags, to contractors:

	Current	One Month Ago Without Bags	One Year Ago With Bags
New York	$2.30	$2.45	$2.59
Jersey City	2.27	2.62	2.50
Boston	2.57	2.57	2.81
Chicago	2.00	2.05	2.36
Pittsburgh	2.05	2.15	2.46
Cleveland	2.22	2.32	2.59
Detroit	2.23	2.28	2.55
Indianapolis	2.17	2.22	2.59
Toledo	2.23	2.22	2.59
Milwaukee	2.11	2.16	2.48
Duluth	2.10	2.20	2.51
Peoria	2.12	2.16	2.48
Cedar Rapids	2.18	2.28	2.60
Davenport	2.14	2.24	2.55
St. Louis	2.40	2.30	2.60
San Francisco	2.40	3.00	2.80
New Orleans	2.70	2.70	3.10
St. Paul	2.20	2.40	2.68
Denver	2.67	2.67	3.40
Kansas City	2.26	2.30	2.59
Seattle	2.53	2.53	3.75
Dallas	2.03	2.03	2.60
Atlanta	2.60	2.60	3.00
Los Angeles	2.68	2.68	2.36

NOTE—Bag charge is generally 15c. each.

TRIANGLE MESH—Price per 100 sq.ft. in carload lots:

PLAIN 4-INCH x 4-INCH MESH

Style Number	Sectional Square per Ft.	Area Inches Width	Pitts-burgh	New York	Chicago	St. Louis	Dallas	San Fran-cisco
032	0.032	$0.92	$1.16	$0.98	$0.99	$1.13	$1.32	
049	0.049	1.18	1.48	1.26	1.26	1.43	1.67	
068	0.068	1.44	1.86	1.53	1.56	1.79	2.06	
093	0.093	1.85	2.39	1.97	2.00	2.41	2.65	
126	0.126	2.28	3.02	2.43	2.47	2.92	3.28	
153	0.153	2.72	3.59	2.90	2.95	3.48	3.93	
180	0.180	3.12	4.13	3.33	3.39	3.99	....	
245	0.245	4.12	5.44	4.40	4.47	5.27	.....	
287	0.287	4.76	6.29	5.08	5.16	6.10	6.86	
336	0.336	5.52	7.30	5.89	5.99	7.06	.....	
395	0.395	6.40	8.45	6.83	6.94	8.19	.....	

PAVING

036P	0.036	$0.71	$0.92	$0.76	$0.77	$0.80	
053P	0.053	1.00	1.28	1.06	1.08	1.12	
072P	0.072	1.26	1.66	1.34	1.37	1.46	
097P	0.097	1.62	2.12	1.73	1.76	1.88	
049R	0.049	1.00	1.28	1.06	1.08	1.12	
067R	0.067	1.26	1.65	1.34	1.37	1.46	
089R	0.089	1.62	3.11	1.73	1.76	1.88	

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths.

Galvanized is about 10% higher.

NOTE—New York Warehouse price is about 15% lower than given above, owing to mill decrease.

EXPANDED METAL LATH—Prices in carload lots per 100 yd. for painted are as follows:

Gage	Weight	New York Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas
27	233	$29.16	$30.97	$31.00	$32.00	$34.00	$34.75
26	250	30.70	32.03	32.00	33.00	35.00	36.25
25	300	31.65	33.19	33.25	.....	37.00	38.15
24	340	33.56	34.30	34.50	35.00	40.25	40.10
22	450	36.60	36.80	.....	.....	.....	43.10

About 10% additional for smaller quantities.

BARS, CONCRETE REINFORCING—Following quotations are per 100 lb.

ROLLED FROM BILLETS

In.	Warehouse New York Mill Pittsburgh	New York Current	New York One Year Ago	Chicago	St. Louis	Dallas	San Francisco
½ and larger	$2.35	$3.37	$4.09½	$3.37	$3.69	$4.75	$4.60
⅝	2.40	3.42	4.14½	3.42	3.74	4.80	4.65
¾	2.45	3.47	4.19½	3.47	3.79	4.90	4.70
⅞	2.60	3.62	4.34½	3.62	4.04	5.10	4.85
1	2.85	3.87	4.59½	4.87	4.19	5.25	5.10

Twisted bars cut to length take extra of 27½c. per 100 lb. Extra on deformed bars, uncut, 7½c.

ROLLED FROM RAILS

	Chicago	St. Louis	Dallas		Chicago	St. Louis	Dallas
½ in. and larger	$2.45	$2.45	$4.75	⅜	$2.70	$2.70	$5.00
⅝	2.50	2.50	4.80	¼	2.95	.....	5.25
¾	2.55	2.55	4.90				

BRICK—To contractors price per 1000 in cargo or carload lots is as follows:

	Common Current	Common One Month Ago	Common One Year Ago	Paving Brick	Paving Block
New York	$15.00	$15.00	$10.00	No Quotations	
Chicago	12.00	12.00	8.00		
St. Louis, selected	16.00	18.00	14.00	$26.00	.....
St. Louis, salmon	10.00*	10.00	9.00	.....	.....
Denver	12.00†	12.00	8.50	.....	.....
Dallas	16.07	16.07	11.50	26.50	.....
San Francisco	12.50	12.50	10.00	.....	.....
Boston (on job)	18.00	18.00	12.35	30.00	45.50
New Orleans	18.00	18.00	12.00*	19.00	36.00
St. Paul	10.25	10.25	8.35	30.00	37.50
Kansas City	14.00	14.00	11.00	52.00	
Seattle	15.00	15.00	10.00	36.00	
Atlanta	15.00	15.00	13.00	.....	35.00
Los Angeles	12.50	12.50	9.00	.....	.....

* Hard brick, $14. † Salmon is $12 in Denver.

HOLLOW TILE—Price per block in carload lots for hollow building tile:

	New York Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas	Factory Perth Amboy, N. J.
4x12x12	$0.11475*	$0.09	$0.08	$0.08	$0.1125	$0.1072	$0.1512
6x12x12	.153*	.12	.112	.105	.15	.1474	.1944
8x12x12	.204*	.16	.144	.15	.....	.2010	.2263
10x12x12	.....	.....	.168	.173	.....	.2546	.2916
12x12x12	.....	.....	.208	.208	.....	.3082	

*Delivered below 72nd St.

	4x12x12	8x12x12	12x12x12
Boston	$0.10	$0.20	$0.30
St. Paul	.056	.11	.162
Kansas City	.0786	.15	.205
Denver	.12½	.18	.25
Seattle	.09	.175	.30
Atlanta	.10	.13	.21
Los Angeles	.082	.154	.236
New Orleans	.12	.15	.20

STRUCTURAL MATERIAL—Following are base prices f.o.b. mill, Pittsburgh, together with quotations per 100 lb. from warehouses at places named:

	Mill Pitts-burgh	New York Cur-rent	New York 1 Yr. Ago	St. Louis	Chi-cago	San Fran-cisco	Dallas
Beams, 3 to 15 in.	$2.25	$3.47	$4.195	$3.39	$3.47	$4.70	$4.50
Channels, 3 to 15 in.	2.45	3.47	4.195	3.39	3.47	4.70	4.50
Angles, 3 to 6 in., ¼ in. thick	2.45	3.47	4.195	3.39	3.47	4.70	4.50
Tees, 3 in. and larger	2.45	3.52	4.195	3.39	3.47	4.70	4.50
Plates	2.66	3.67	4.445	3.39	3.67	4.90	4.70

RIVETS—The following quotations are per 100 lb.:

	STRUCTURAL Mill Pittsburgh	Warehouse New York Current	New York One Yr. Ago	Chi-cago	St. Louis	San Fran-cisco	Dallas
½ in. and larger	$4.20	$5.05	$6.095	$4.87	$4.94	$6.05	$6.00
	CONE HEAD BOILER						
½ in. and larger	4.30	5.15	6.195	4.97	5.04	6.15	6.00
⅝ and ¾	4.45	5.30	6.345	5.12	5.19	6.30	6.10
⅞ and 1	4.70	5.55	6.695	6.47	5.44	6.65	6.50

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows in New York, St. Louis, Chicago and San Francisco:

	1-Ply c.l.	1-Ply l.c.l.	2-Ply c.l.	2-Ply l.c.l.	3-Ply c.l.	3-Ply l.c.l.
No. 1 grade	$1.35	$1.60	$1.70	$1.95	$2.05	$2.30
No. 2 grade	1.20	1.45	1.50	1.75	1.80	2.05

Asbestos asphalt-saturated Felt (14 lb. per square) costs $5.00 per 100 lb.

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs $1.80 per roll in carload lots and $2.05 for smaller quantities.

Shingles, red and green slate finish, cost $5.00 per square in carloads; $5.25 in smaller quantities, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York and Chicago:

	Carload Lots N. Y.	Carload Lots Chicago	Less Than Carload Lots N. Y.	Less Than Carload Lots Chicago
Tar felt (14 lb. per square of 100 sq.ft.)	*$50.00*	*$50.00*	*$51.00*	*$51.50*
Tar pitch (in 400-lb. bbl.)	19.00	16.00	20.00	17.00
Asphalt pitch (in barrels)	*30.00*	*30.00*	*35.50*	*35.50*
Asphalt felt	*65.00*	*65.00*	*69.50*	*69.50*

SHEETS—Quotations are in cents per pound in various cities from warehouse also the base quotations from mill:

Blue Annealed	Large Mill Lots Pittsburgh	St. Louis	Chicago	San Francisco	—New York— Current	One Yr. Ago
No. 10	3.55	4.29	4.57	5.80	4.57	5.45
No. 12	3.60	4.34	4.62	5.75	4.62	5.50
No. 14	3.65	4.39	4.67	5.90	4.67	5.55
Black						
Nos. 18 and 20	4.15	5.04	5.17	6.75	5.42	6.25
Nos. 22 and 24	4.20	5.14	5.22	6.80	5.47	6.30
No. 26	4.25	5.19	5.27	6.95	5.52	6.40
No. 28	4.35	5.29	5.37	7.05	5.62	6.45
Galvanized						
No. 10	4.70	5.64	5.72	.....	5.97	6.70
No. 12	4.80	5.64	5.82	7.30	6.02	6.80
No. 14	4.80	5.64	5.82	7.30	6.07	6.80
Nos. 18 and 20	5.20	5.84	6.12	7.60	6.37	7.10
Nos. 22 and 24	5.25	5.99	6.25	7.75	6.52	7.25
No. 26	5.40	6.14	6.42	7.90	6.67	7.40
No. 28	5.70	6.44	6.72	8.20	6.9	7.70

*For painted corrugated sheets add 30c. per 1000 lb. for 25 to 28 gage; 25c. for 16 to 24 gages; for galvanized corrugated sheets add 15c., all gages.

LINSEED OIL—These prices are per gallon:

	New York Current	New York One Year Ago	Cleveland Current	Cleveland One Year Ago	Chicago Current	Chicago One Year Ago
Raw in barrel	$ .63	$1.55	$1.71	$1.65	$1.66	$1.65
5-gal. cans	1.76	1.65	*1.81*	1.80	1.86	1.75

WHITE AND RED LEAD in 500-lb. lots sell as follows in cents per pound:

	Red Current		Red 1 Year Ago		White Current	White 1 Yr. Ago
	Dry	In Oil	Dry	In Oil	Dry and In Oil	Dry and In Oil
100-lb. keg	13.00	14.50	11.25	11.00	13.00	10.50
25 and 50-lb. kegs	13.25	14.75	11.50	11.25	13.25	10.75
12½-lb. keg	13.50	15.00	11.75	11.50	13.50	11.00
5-lb. cans	15.00	16.50	13.25	13.00	15.00	13.00
1-lb. cans	16.00	17.50	13.25	13.00	16.00	13.00

500 lb. lots less 10% discount; 2000 lb. lots less 10-2½% discount.

LUMBER

San Francisco—Prices of rough Douglas fir No. 1 common, in more than carload lots:

	Lumber Prices in Yards at San Francisco 6-8-12 and 14 Ft.	10-16-18 and 20 Ft.	22 and 24 Ft.	25 to 32 Ft.
3x3 and 4	*$23.50*	*$24.00*	*$25.00*	*$27.00*
3x6 and 8	*24.50*	*25.00*	*26.00*	*28.00*
4x4-6 and 8	*25.00*	*26.00*	*27.00*	*29.00*
3x10 and 12	*25.00*	*26.00*	*27.00*	*29.00*
3x14	*25.50*	*26.50*	*27.50*	*29.50*
4x10 and 12	*25.00*	*26.00*	*27.00*	*29.00*
4x14	*26.00*	*27.00*	*28.00*	*29.00*
	24 Ft. and Under	25 to 32 Ft.		33 to 40 Ft.
6x10	*$24.50*	*$26.50*		*$27.50*
6x14	*26.00*	*28.00*		*29.00*
8x10	*24.50*	*26.50*		*27.50*
8x14	*26.00*	*28.00*		*29.00*

New York, Chicago and St. Louis	Southern Pine — New York* 20-24 Ft.	34 Ft.	Chicago — 20 Ft. and Under	22-24 Ft.	St. Louis — 20 Ft. and Under	22-24 Ft.	Yellow Pine
3x 4 to 8x 8	$39.00	$40.00	$38.50	$39.50	$35.00	$37.00	
3x10 to 10x10	43.00	44.00	40.50	41.50	38.50	40.00	
12x12 to 12x12	45.00	46.00	43.50	44.50	40.00	41.50	
14x14 to 14x14	50.00	51.00	47.50	48.50	45.00	47.00	
16x16 to 16x16	54.00	55.00	51.00	52.00	48.00	50.00	
18x18 to 18x18	59.00	60.00	55.00	56.00	52.00	53.50	
20x20 to 20x20	62.00	63.00	61.00	62.00	.....	.....	

*From Lumbermen's Bureau.

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12 x 12 and under; for sizes over 12 x 12 add $2. For merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

Other Cities	8 x 8-In. x 20-Ft. and Under P.	Fir	Hemlock	Spruce	12 x 12-In. 20 Ft. and Under P.	Fir
Boston	$46.50	$45.00	$45.00	$46.00	$52.00	$46.00
Cincinnati	37.00	.....	36.00	.....	41.00	.....
Kansas City	40.50	43.50	41.50	39.50	45.50	45.50
Seattle	17.50	17.50	17.50	17.50	17.50	17.50
New Orleans	31.50 (No. 1)		.....	.....	36.50 (No. 1)	
St. Paul	46.00	50.00	46.00	46.00	.....	53.00
Denver	44.00	36.50	36.50	.....	49.00	39.00
Atlanta	35.50	.....	.....	.....	*40.50*	.....

	1-In. Rough, 10 In. x 16 Ft. and Under P.	Fir	Hemlock	2-In. T. and Gr. 10 In. x 16 Ft. P.	Fir
Boston	$50.00	$45.00	$40.00	$45.00	$48.50
Cincinnati	50.50	40.00	40.00	48.50	44.50
Kansas City	50.00	57.75	55.75	53.50	63.00
Seattle	17.50	17.50	17.50	17.50	17.50
New Orleans	34 and $41 for No. and No. 2			31.50 (No. 1)	
St. Paul	50.50	40.00	40.00	48.50	45.50
Denver	45.00	35.50	35.50	38.00	32.00
Atlanta	*20.00*	.....	.....	33.00	.....
Los Angeles	.....	31.00	30.00	.....	.....

Dallas—Yellow pine:

2x4 to 2x12—12, 14 and 16	$38.80
2x4 to 2x12—10, 18 and 20	40.90
2x4 to 2x12—22 and 24	43.20
4x4, 4x6, 6x6, 8x8 and 3x8	46.25
8x10, 10x10 and 3x10	52.00
12x12 and 3x12	54.25

NAILS—The following quotations are per keg from warehouse:

	Mill Pittsburgh	St. Louis	Chicago	San Francisco	Dallas
Wire	$3.25	*$3.90*	$4.37	$5.00	$4.75
Cut	3.45	*6.00*	6.50	6.40	.....

MISCELLANEOUS

FREIGHT RATES—On finished steel products in the Pittsburgh district including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Boston	$0.30	New Orleans	$0.38½
Buffalo	.17	New York	.27
Chicago	.27	Pacific Coast (all rail)	1.25*
Cincinnati	.23	Philadelphia	.24½
Cleveland	.17	St. Louis	.24
Denver	.99	St. Paul	.49½
Kansas City	.59		

Note—Add 3% transportation tax. * Minimum carload, 80,000 lb.

WATER TREATMENT CHEMICALS—Prices per pound are as follows:

	New York	Chicago
Sulphate of alumina (iron free), in 400-lb. bbl	$0.03	$0.04½
Hypochlorite of lime (bleaching powder), in 700-lb. drums	.02	.05
Soda ash, in 400-lb. bbl	.02	.03
Liquid chlorine in 100-lb. cylinders. Lime is quoted separately	.12	.12

Contractors' Miscellaneous Supplies

STEEL SHEET PILING—The following price is base per 100 lb. f. o. b. Pittsburgh, with a comparison of a month and a year ago:

Current	One Month Ago	One Year Ago
$2.25	$2.25	$4 to $5

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York and St. Louis
Galvanized iron rigging	+12½%
Galvanized cast steel rigging	7½%
Bright plow steel	35%
Bright cast steel	22½%
Bright iron and iron tiller	5

San Francisco: Galvanized, less 5%, bright, less 25% off.

MANILA ROPE—For rope smaller than ¼-in. the price is ½ to 2c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ¼-in., 8 ft.; ⅜-in., 6; ½-in., 4½; ⅝-in., 3½; ¾-in., 2 ft. 10 in.; 1-in., 2 ft. 4 in. Following is price per pound for ¼-in. and larger, in 1200-ft. coils:

Boston	$0.26	Atlanta	$0.29½
New York	*.28*	Denver	.29
Cincinnati	*.29*	Kansas City	.28½
Chicago	*.26½*	New Orleans	.27½
St. Paul	*.28*	Seattle	*.27*
San Francisco	*.26*	Los Angeles	*.28*

EXPLOSIVES—Price per pound of dynamite in small lots and price per 25 lb keg for black powder.

	Low Freezing 20%	Gelatin 40%	Gelatin 60%	Gelatin 80%	Black Powder
New York		$0.27½	$0.30	.....	$2.40
Boston	$0.22½	24½	26½	$0.31	2.40
Cincinnati	19½	21½	23½	.....	2.35
Kansas City	*.19*	*23½*	*26½*	*.30*	2.45
New Orleans	.23¾ (50%)	*22½*	*24½*	.....	.....
Seattle	.....	18½	21½	.....	.....
Chicago	.18½	21½	25½	.....	.....
St. Paul	.19	*23½*	*26½*	.....	2.45
St. Louis	.19	23½	25½	.30	2.35
Denver	.17½	*22*	*24½*	*.28½*	2.60
Dallas	*.189*	*.225*	*.288*	*.342*	.....
Los Angeles	*.19*	*24*	27	.....	2.75

POLES—Price of Western red cedar poles is as follows:

	New York Current	New York One Year Ago	Chicago	St. Louis	Denver
6-in. x 30-ft.	$5.82	$5.66	$5.17	$4.55	$5.17
7-in. x 30-ft.	7.65	7.45	6.85	6.10	6.85
7-in. x 35-ft.	11.10	10.80	10.00	8.95	10.00
8-in. x 30-ft.	12.65	12.30	11.35	10.10	11.35
7-in. x 40-ft.	12.85	12.50	11.50	10.20	11.50
8-in. x 45-ft.	18.90	18.40	16.90	15.00	16.90
8-in. x 50-ft.	22.65	22.05	20.30	18.00	20.30

10c. higher freight rates on account of double loads.

For plain pine poles, delivered New York, the price is as follows:

10-in. butts, 5-in. tops, length 20-30 ft.	$9.00
12-in. butts, 6-in. tops, length 30-40 ft.	11.50
12-in. butts, 6-in. tops, length 41-50 ft.	12.50
14-in. butts, 6-in. tops, length 51-60 ft.	21.00
14-in. butts, 6-in. tops, length 61-71 ft.	23.50
	Dallas
6-in. x 20-ft.	$3.00
6-in. x 30-ft.	5.00
8-in. x 30-ft.	7.50
8-in. x 35-ft.	7.50

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges.

	New York	Chicago	St. Louis
No. 1 railroad wrought	$18.50	$16.50	$15.50
Stove plate	16.00	16.50	15.50
No. 1 machinery cast	*22.00*	22.00	19.50
Machine shop turnings	*8.00*	6.75	7.00
Cast borings	*9.50*	9.75	7.50
Railroad malleable cast	13.50	16.50	14.00

SHIP SPIKES—Current prices per 100 lb.

In.	San Francisco Galv.	San Francisco Black	Seattle Black
½	$10.50	$8.50	$8.50
⅝	9.85	7.85	8.25
¾	9.70	7.70	8.30

Pittsburgh base, $4.75 per 100 lb.

PROPOSALS

"For Proposals Advertised see the pages immediately following the Construction News Section."

WATERWORKS

Bids Close		See Eng. News-Record
May 5	Pottsville, Pa. Adv. Apr. 17 and 24.	Apr. 17
May 5	Salt Lake City, Utah.	Apr. 24
May 6	Ely, Minn. Adv. Apr. 17 and 24.	Apr. 17
May 7	Harrisburg, Pa.	May 1
May 8	Brainerd, Minn.	Apr. 24
May 13	Hollandale, Miss.	Apr. 17
May 14	Gilboa, N. Y. Adv. Apr. 10 to 24.	Apr. 17
May 27	Niles, Mich.	May 1
May 29	Tamaqua, Pa. Adv. Apr. 24.	Apr. 24
June 2	Mankato, Minn. Adv. May 1.	May 1

SEWERS

May 5	Des Moines, Ia.	May 1
May 5	Macon, Mo. Adv. Apr. 17 and 24.	Apr. 17
May 6	Newark, N. J.	Apr. 3
May 6	Cleveland, O. Adv. Apr. 3 and 10.	Apr. 10
May 6	Bridgeport, Conn.	May 1
May 7	Brooklyn, N. Y.	May 1
May 8	Platte, S. D. Adv. Apr. 17 and 24.	Apr. 17
May 12	Pontiac, Mich. Adv. Apr. 24.	Apr. 24
May 13	Newark, N. J.	Apr. 24
May 14	Humphrey, Neb.	May 1
May 14	Cleveland, O.	May 1
May 19	Akron, O. Adv. Apr. 24.	Apr. 24
May 20	Erie, Pa. Adv. Apr. 24.	Apr. 24
May 21	Akron, O. Adv. Apr. 24.	Apr. 24
May 27	Niles, Mich.	May 1

BRIDGES

May 3	North Adams, Mass. Adv. Apr. 17 and 24.	Apr. 24
May 3	Ste. Marie Monnoir, Que.	May 1
May 5	Akron, O. Adv. Apr. 10 and 17.	Apr. 10
May 5	Lyons, Kan.	May 1
May 5	St. Valerien, Que.	May 1
May 5	Cathlamet, Wash.	May 1
May 5	Chariton, Ia.	May 1
May 7	Long Prairie, Minn.	May 1
May 8	New Haven, Conn.	May 1
May 8	Lindsay, Ont.	May 1
May 10	Adrian, Mich.	May 1
May 12	St. Croix, Que.	May 1
May 12	Bright, Ont.	May 1
May 13	North Temiskaming, Que.	May 1
May 15	Valdosta, Ga.	Apr. 24
May 15	Marion, Ia.	May 1
May 16	Thomasville, Ga.	Apr. 24
May 19	Cottonwood, Ariz.	Apr. 24
May 19	Jerome, Ariz.	May 1
May 19	Bowling Green, O.	May 1
May 20	Macon, Ga.	May 1

STREETS AND ROADS

May 2	St. George, S. I., N. Y.	Apr. 24
May 2	Pennsylvania Adv. Apr. 10 to 24.	Apr. 10
May 2	Ebensburg, Pa.	May 1
May 2	Philadelphia, Pa.	May 1
May 3	Stonewall, Man.	May 1
May 5	Greenfield, Ind.	Apr. 17
May 5	North Dakota	Apr. 10
May 5	Worthington, Minn.	Apr. 10
May 5	Fayetteville, W. Va. Adv. Apr. 10 to 24.	Apr. 17
May 5	Colfax, Wash.	Apr. 24
May 5	Dallas, Tex. Adv. Apr. 17 and 24.	Apr. 17
May 5	Swan River, Man.	May 1
May 5	Ebensburg, Pa.	May 1
May 5	Des Moines, Ia.	May 1
May 5	Union, N. J.	May 1
May 5	Sheboygan, Wis.	May 1
May 5	Mt. Lebanon, Pa.	May 1
May 5	New York, N. Y.	May 1
May 6	St. George, S. I., N. Y.	May 1
May 6	Sheboygan, Wis.	May 1
May 6	Flandreau, S. D.	May 1
May 6	Clarion, Ia. Adv. May 1.	May 1
May 6	Esterville, Ia.	May 1
May 6	Bellevue, Pa.	May 1
May 6	Pipestone, Minn.	May 1
May 6	Everett, Wash.	May 1
May 6	Maryland Adv. May 1.	May 1
May 6	Detroit, Minn.	Apr. 24
May 6	Durham, N. C. Adv. Apr. 17.	Apr. 17
May 6	Upper Marlboro, Md.	Apr. 24
May 6	Edgerton, O.	Apr. 24
May 7	Burlington, N. J.	Apr. 10
May 7	Long Prairie, Minn.	Apr. 17
May 7	Faribault, Minn.	Apr. 17
May 7	Manhattan Beach, Cal.	Apr. 24
May 7	Brooklyn, N. Y.	May 1
May 7	Guelph, Ont.	Apr. 24
May 7	New Jersey	Apr. 24
May 7	Burlington, N. J. Adv. Apr. 24.	Apr. 24
May 7	Arkansas Adv. Apr. 24.	Apr. 24
May 7	Rome, N. Y.	May 1
May 7	Aberdeen, S. D.	May 1
May 8	Milan, Mich.	May 1
May 8	Lorain, O.	May 1
May 8	Poughkeepsie, N. Y. Adv. May 1.	May 1
May 8	Arthabaska, Que.	May 1
May 8	Cohoes, N. Y. Adv. May 1.	May 1
May 9	Norfolk, Va. Adv. Apr. 24.	Apr. 24
May 9	Patchogue, N. Y. Adv. Apr. 24.	Apr. 24
May 9	Ebensburg, Pa. Adv. May 1.	May 1
May 9	Norfolk, Va.	May 1
May 9	New York, N. Y.	May 1
May 9	Tylertown, Miss.	May 1
May 9	Trenton, N. J.	May 1
May 10	Pittsfield, Mass. Adv. May 1.	May 1
May 12	Elk River, Minn.	Apr. 17
May 12	David City, Neb.	Apr. 24
May 12	Wahoo, Neb.	Apr. 24
May 13	St. Paul, Neb.	Apr. 24
May 12	New Jersey	Apr. 24
May 12	Salem, N. J.	Apr. 24
May 12	Great Falls, S. C.	May 1
May 12	Oneonta, N. Y.	May 1
May 12	Charleston, Wash.	May 1
May 12	Bremerton, Wash.	May 1
May 12	Hutchinson, Kan.	May 1
May 12	Seattle, Wash.	May 1
May 13	Toledo, O.	May 1
May 13	Beatrice, Neb.	Apr. 24
May 14	Arkansas Adv. Apr. 17 and 24.	Apr. 17
May 14	Austin, Minn.	Apr. 24
May 14	Nebraska City, Neb.	Apr. 24
May 14	Humphrey, Neb.	Apr. 24
May 14	Helena, Mont.	May 1
May 14	Illinois	May 1
May 14	New Jersey	May 1
May 15	Sioux Falls, S. D.	May 1
May 15	Columbus, Tex.	May 1
May 15	Duluth, Minn.	May 1
May 15	Rushville, Neb.	Apr. 24
May 15	Hastings, Minn.	Apr. 24
May 15	Plymouth, Wis.	Apr. 10
May 15	Bridgeville, Pa.	Apr. 24
May 15	New York	May 1
May 15	Lebanon, Pa. Adv. May 1.	May 1
May 15	Terra Haute, Ind.	May 1
May 15	Cumberland, Md. Adv. May 1.	May 1
May 16	Toronto Ont.	Apr. 24
May 16	La Moure, N. D.	May 1
May 19	Merced, Cal.	Apr. 10
May 19	Tulsa, Okla. Adv. Apr. 17 and 24.	Apr. 17
May 19	Akron, O. Adv. Apr. 24.	Apr. 24
May 19	Minneapolis, Minn.	May 1
May 20	Windom, Minn.	Apr. 24
May 21	Akron, O. Adv. Apr. 24.	Apr. 24
May 22	Benson, Minn.	May 1
May 23	Lawrence, Kan.	May 1
May 27	Preston, Minn.	May 1
May 28	Nashville, Tenn. Adv. May 1.	May 1
May 30	Dallas, Tex. Adv. Apr. 17 and 24.	Apr. 17
June 2	St. Severe, Que.	Apr. 24
June 10	Clarksville, Pa.	Apr. 3

EXCAVATION AND DREDGING

May 5	Albert Lea, Minn.	May 1
May 5	Clinton, Ia. Adv. May 1.	May 1
May 6	Paragould, Ark.	Apr. 3
May 6	Manatoba	May 1
May 14	Sheboygan, Wis.	May 1
May 14	Poplar Bluff, Mo.	Apr. 3
May 15	Mobile, Ala. Adv. Apr. 10 to 24.	Apr. 10
May 15	Sheboygan, Wis.	May 1
May 16	Grant City, Mo. Adv. May 1.	May 1
June 2	Beaufort, N. C. Adv. Apr. 24.	Apr. 24

INDUSTRIAL WORKS

Bids Close		See Eng. News-Record
May 10	Sheboygan, Wis.	Apr. 24
May 15	Toronto, Ont.	Apr. 24
May 15	Bemidji, Minn.	Apr. 17

BUILDINGS

May 2	New York, N. Y.	May 1
May 3	Racine, Wis.	Apr. 17
Apr. 5	Akron, O.	Apr. 17
May 5	Guelph, Ont.	May 1
May 5	Bridgeport, Conn.	Apr. 24
May 5	West New York, N. Y.	May 1
May 5	Campbell, Minn.	May 1
May 6	Bayonne, N. J.	Apr. 24
May 6	Hartford, Conn.	May 1
May 7	Troy, N. Y.	May 1
May 7	Ft. Willian, Ont.	Apr. 24
May 7	Duluth, Minn.	May 1
May 7	Red Lake Falls, Minn.	May 1
May 8	Newark, N. J. Adv. Apr. 17 and 24.	Apr. 17
May 8	Salisbury Center, N. Y.	Apr. 24
May 8	Victoria, Minn.	Apr. 24
May 9	Sault Ste. Marie, Ont.	May 1
May 10	Sheboygan, Wis.	May 1
May 12	Highland Park, Mich.	May 1
May 12	Ironton, O. Adv. May 1.	May 1
May 12	Flint, Mich.	Apr. 17
May 12	Hawley, Minn.	Apr. 24
May 15	Port Washington, Wis.	Apr. 24
May 15	Verona, N. J.	Apr. 10
May 15	Kearney, Minn.	Apr. 17
May 15	Winnebago, Minn.	Apr. 24
May 15	Sault Ste. Marie, Ont.	May 1
May 15	Farrell, Pa.	May 1
May 16	Grand Rapids, Mich. Adv. May 1.	May 1
May 19	Charleston, S. C.	May 1
May 20	Cathay, N. D. Adv. May 1.	May 1
May 21	Cohoes, N. Y.	May 1
May 26	Gallipolis O.	May 1

FEDERAL GOVERNMENT WORK

May 5	Dredging—Wilmington Del. Adv. Apr. 17 and 24.	Apr 10
May 5	Sewer Discharge Pipe — Spec. 3267 — Pensacola, Fla.	Apr. 17
May 5	Fence — Spec. 3789 — Charleston, W. Va.	Apr. 17
May 5	Discharge Pipe—Spec. 3267 —Washington, D. C.	Apr. 24
May 5	Buildings — Spec. 3818 — Hampton Roads, Va.	Apr. 24
May 5	Additional Buildings—Spec. 3823—Hampton Roads, Va.	Apr. 24
May 5	Officers' Quarters and Administration Building, Spec. 3835—Quantico, Va.	May 1
May 6	Post Office — Woodward, Okla.	May 1
May 6	Lock and Abutment—Cincinnati, O. Adv. Apr. 3 to 24.	Apr. 10
May 6	Alteration to Post Office—Bridgeport, Conn.	Apr. 17
May 8	Marine Railway — Ft. Mifflin, Pa. Adv. Apr. 10 to 24.	Apr. 10
May 8	Post Office—Mount Pleasant, Tex.	Apr. 10
May 9	Rock Crusher — Florence, Ala. Adv. Apr. 10 to 24.	Apr. 10
May 9	Dredging — New York, N. Y. Adv. Apr. 10 to 24.	Apr. 10
May 12	Dredging — New York, N. Y. Adv. Apr. 10 to 24.	Apr. 10
May 12	Torpedo Storage Building —Spec. 3767 — Newport, R. I.	Apr. 24
May 12	Storehouse — Spec. 3842 — Charleston, S. C.	Apr. 24
May 12	Conduit System—Spec. 3846 —Pensacola, Fla.	Apr. 24
May 12	Cranes — Spec. 3670 — South Charleston, W. Va.	May 1
May 12	Buildings — Spec. 3855 — Paris Island, S. C.	May 1
May 15	Rip Rap—Baltimore, Md. Adv. Apr. 10 to 24.	Apr. 17
May 15	Dredging — New Bedford, Mass. Adv. Apr. 10 to 24.	Apr. 17
May 19	Dry Dock—Spec. 3858— Charleston, S. C.	Apr. 24
May 19	Elevators and shaft—Spec. 3851—Philadelphia, Pa.	May 1
May 19	Crane—Spec. 3869—Pensacola, Fla.	May 1
May 20	Dredging — New London, Conn. Adv. May 1.	May 1

Bids Close		See Eng. News-Record
May 20	Conduit, Wiring and Lighting Fixtures—Elgin, Ill. Adv. May 1.	May 1
May 21	Dredging—Duluth, Minn. Adv. Apr. 24.	Apr. 24
May 21	Derricks—Florence, Ala. Adv. Apr. 24.	Apr. 24
May 22	Rip Rap—Duluth, Minn.	May 1
May 26	Laboratory—Fairport, Ia.	May 1
May 26	Superstructure — Chicago, Ill. Adv. May 1.	May 1
May 26	Rip Rap—Philadelphia, Pa.	May 1
May 27	Dredging—Wilmington, Del. Adv. May 1.	May 1
May 28	Jetty and Revetment—Jacksonville, Fla. Adv. May 1.	May 1
May 28	Lock and Abutment—Cincinnati, O. Adv. May 1.	May 1
June 2	Dam and Bridge—Sacaton, Ariz. Adv. May 1.	May 1
June 6	Post Office—Bellefourche, S. D. Adv. May 1.	May 1

MISCELLANEOUS

May 1	Stone—Cranston, R. I.	May 1
May 2	Tracks—New York, N. Y.	Apr. 24
May 5	Asphalt—Lansing, Mich. Adv. Apr. 24.	Apr. 24
May 6	Pipe—Detroit, Mich.	May 1
May 6	Graders — Grand Forks, N. D.	May 1
May 6	Road Oil—Sheboygan, Wis.	May 1
May 12	Tower — Prince Rupert, B. C.	Apr. 24
May 12	Granite Blocks, etc.—Sherbrooke, Que.	May 1
May 15	Lighting System—Mandan, N. D. Adv. May 1.	May 1

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Conn., Monroe—Bridgeport Hydraulic Co., 820 Main St., Bridgeport, plans to build concrete dam to divert water from Cargills Stream into Means Brook, here.

N. Y., Rome—Water & Sewer Bd. plans to lay water mains in Garden, Pine and Ann Sts., also Howland and McKinley Aves. About $7500. A. Armstrong, supt.

N. Y., Schenectady—City plans to build additional well at Rotterdam Pumping Station. About $200,000. L. B. Seabring, city engr.

O., Toledo—Lucas Co. receives bids about July, laying 7700 ft. 6 in. c.i. pipe and installing ten 6 in. valves and ten 3 way hydrants. L. A. Boulay, co. engr.

Mich., Highland Park (Detroit P. O.)—City soon lets contract building rein.-con. and brick superstructure for filtration plant, to include 2-story, 29 x 32 ft. head house, two 1-story, 22 x 27 ft. wings, and 3-story, 32 x 85 ft. filter house, for Dequindre Ave. Pumping Station. About $85,000. L. C. Whitset, 28 Gerald Ave., engr. Noted Aug. 15.

Ill., Decatur—City having plans prepared by S. A. Greeley, engr., 64 West Randolph St., Chicago, for dam to impound water supply for city. About $500,000. Noted Sept. 26 under "Miscellaneous."

Ill., Moline—See "Streets and Roads."

Kan., Lyons—City having tests made for improving water-works system. Work involves 8650 ft. 8 in. pipe, 3 motor driven pumps and pump house. Bonds for $30,000 voted for project. S. Ainsworth, city engr. Noted Mar. 27.

Mont., Hardin—City voted $9600 bonds to extend water-works. L. L. Flickinger, Hardin, engr. Noted Jan. 30.

Idaho, Caldwell—City plans election May 20, to vote on $30,000 bonds to replace present wood pipe with c.i. pipe. F. J. Lockwood, Cadwell, engr.

Ore., Pilot Rock—City plans to improve water system, cost $16,000; also install lighting plant, 25 kw. capacity, to be operated by 25 hp. gasoline motor; $4000 bonds issued toward cost. J. L. Vaughn, mayor.

Cal., Anaheim—City soon receives bids furnishing and laying water pipe. About $6000.

Cal., Los Angeles—Bd. Pub. Serv. approved plan to supply aqueduct water to Westgate, Palma and Sawtelle Dists. and ultimately Santa Monica Dist., if it is annexed to city. Work involves 25 mi. pipe line from San Fernando Reservoir and tunnel and reservoir in Santa Monica Mts. About $1,357,000. Citizens will form irrigation districts and vote on bonds to secure above improvements; also distributing systems and laterals and to purchase private water companies. W. Mulholland, 645 South Olive St., ch. engr.

Cal., Whittier—City having plans prepared by J. B. Lippincott, engr., 1134 Central Bldg., Los Angeles, for extension and improvements to water system. Plans include developing new supply and increasing storage facilities. About $300,000. C. O. Trueblood, clk.

BIDS DESIRED

Pa., Harrisburg—Until May 7, by E. Martin, state comr. health, replacing existing wood roof on reservoir with one of concrete, Contr. No. 30; extending water supply system, including about 5000 ft. 8 in. c.i. pipe, and 5000 ft. w.i. and c.i. pipe, varying from 2-6 in. diam., with valves, fire hydrants, etc., Contr. No. 31; building and resurfacing with water bound macadam 15,000 ft. road, Contr. No. 32; building rein.-con. elevated coal bin to have 300 ton capacity, with necessary coal handling machinery, Contr. No. 33; extending sewage treatment plant, involving 60 cu.yd. concrete, 1 ton steel reinforcement, 1000 cu.yd. excav., 350 cu.yd. broken stone filter material, 50 cu.yd. rubble masonry, piping, etc., Contr. No. 34.

O., Bryan—Until May 9, by Bd. Trustees Pub. Affairs, improving waterworks system. Work involves two 10 in. x 20 ft. artesian wells, one 1,000,000 gal. reservoir, 2 electrically driven centrifugal pumps, one 500 gal. meter and 14,500 ft. 4, 6 and 8 in. mains with hydrants and valves. A. H. Smith Co., 320 Nasby Bldg., Toledo, engrs.

Mich., Niles—Until May 27, by city, building 500,000 gal. rein.-con. reservoir. About $10,000. C. W. Cole, 529 J. M. S. Bldg., South Bend, Ind., engr.

Ia., Des Moines—See "Sewers."

Minn., Mankato—Until June 2, by Village Recorders, furnishing material and extending water mains. M. M. Crain, engr.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. J., Bayonne—City received lowest bid building two 30 in. water mains under Hackensack River, from Snare & Triest Co., 8 West 40th St., New York City, $373,640. Noted Apr. 10.

★**Md., Baltimore**—Bd. Awards let contract furnishing and erecting 30,000,000 gal. turbo-centrifugal pump and auxiliary equipment for Mt. Royal Pumping Station, to Worthington Pump & Machine Corp., 115 Bway, New York City, $26,258. Noted Mar. 6.

★**N. C., High Point**—City let contract constructing filtering building, to R. K. Stewart & Son, Farmville, Va., $59,930; filters, to Pittsburgh Meter Co., 1st Natl. Bank Bldg., Pittsburgh, $21,400; pumps and motors, to Morris Machine Wks., East Genesee St., Baldwinsville, N. Y., $4320. Noted Apr. 3.

O., Toledo—Comrs. Lucas Co. received bids laying 7720 ft. 6 in. c.i. pipe in Overland Heights, from S. L. Cothrel, 341 Ohio Bldg., $12,678; Brooks & Sons, Jackson, Mich., $12,685; J. N. Bick, 601 Nasby Bldg., $13,656. Noted Apr. 17.

★**Mont., Cascade**—City let contract building well and pumphouse, to E. Z. Comer, Cascade, $6029. Noted Jan. 30.

★**Ont., New Toronto**—City let contract laying 1100 ft. 24 in. steel intake pipe, to R. C. Huffman, 14 Wellington St. E., cost plus 10 per cent. Noted Mar. 20.

Sewers

PROPOSED WORK

Mass., New Bedford—City appropriated $20,000 to build sewers in Church St.; $1700 in Acushnet Ave.; $20,000 in Tripps Brook, and $4000 for catch basins. G. H. Aye, city engr.

R. I., Pawtucket—City appropriated $100,000 to build sewers in various streets. I. Gill, comr. pub. wks. soon receives bids.

R. I., Providence—Bd. Contr. & Supply soon receives bids, building storm sewers in Roger Williams Park, Bway., Cape, Sabin and Federal Sts., Hope, Eaton, Carleton and Yale Aves. M. H. Bronsdin, city engr.

N. Y., Rochester—City having plans prepared building sewage disposal plant in 23rd Ward, to include 1 Imhoff Tank and pumping system to care for territory between Lata Rd. and Beach Ave.; also one in Maplewood Dist. to include sprinkler filters. Address J. T. Skinner, asst. city engr.

N. Y., Syracuse—City plans to build sewers in Midland Ave., also in Gale Ave. from Vann St. to city line; West Matson Ave. from Midland Ave. to South Salina St., and East Willow St. from Lodi St. to point 600 ft. east Lodi St. H. C. Allen, city engr.

N. Y., Watertown—Bd. Pub. Wks. plans to build sewers in Morrison, Dimmick, West Ten Eyck and Paddock Sts. About $25,000. E. W. Sayles, city engr., will prepare plans.

O., Akron—City soon receives bids building sanitary sewers in Uhler Ave. and Carpenter St. Work involves 3820 ft. 12-36 sewer, 15 manholes, etc. J. E. Root, city sewerage engr.

O., Cleveland—City soon receives bids building sewer in East 82nd St. from Superior to Decker Aves., involving 880 ft. 12 ft. 6 in. x 11 ft. brick sewers, 125,000 ft. B. M. plank and timber, 20,000 ft. B. M. hardwood grillage and 30 ft. 12 in. vitr. pipe. R. Hoffman, city engr.

O., Springfield—City plans to build sewers in (1) Clay, Catherine, Pearl and Rose Sts., (2) Race and Rubsam Sts., (3) 1st St. from Limestone St. to Fountain Ave., (4) Warder Park Suburb, (5) Yellow Spring St., (6) Grant St., (7) Limestone St. north to a point 300 ft. south of Columbia Ave., involving 22,000 lin.ft. 6-24 in. vitr. pipe and 2700 cu.yd. rock excav., cost $47,590; storm sewer in alley west of Fountain Ave. from College to McCreight Sts., involving 2945 lin.ft. 30 in. vitr. pipe, $15,555. O. E. Car, city mgr.

Mich., Alpha—City having plans prepared by S. A. Greeley, engr., 64 West Randolph St., Chicago, for sewerage system. About $25,000.

Mich., Detroit—City soon lets contract furnishing labor and material (except manhole rings, covers and iron steps) building and finishing complete with backfilling vitr. crock lateral sewers, crocks varying from 12-18 in. together with specials and brick manholes alleys No. 3062, 3116, 3117, 3118, 3119, 3120, 3122, 3123, 3124, 3125, 3126, 3127, cost $47,500. C. W. Hubbell, city engr.

Wash., Camas—City plans to build trunk line sewerage system. About $27,000.

Ore., Astoria—City plans to build main trunk sewerage and drainage system in Dist. No. 5. Cost to exceed $10,000. G. T. McClean, city engr.

Ore., Portland—City plans to build vitr. or cement sewers in Malden Ave., cost, $3156; East 78th St., $1493; Lambert Ave., $3209; East 74th 75th, 76th and Halsey Sts., $15,139. G. R. Funk, city aud.

Cal., Beverly Hills—See "Miscellaneous."

Cal., Redwood City—See "Bridges."

Ont., Aurora—City retained James, Loudon & Hertzberg, engrs., 36 Toronto St., Toronto, to prepare estimates for installing vitr. sewers and septic tanks. About $100,000.

BIDS DESIRED

Conn., Bridgeport—Until May 6, by Paving & Sewer Comn., building 1500 ft. vitr. sanitary and storm sewer in Spring St., cost $25,000; also 5760 ft. in Canfield Ave. J. A. McElroy, city engr.

N. Y., Brooklyn—Until May 7, by E. Riegelmann, boro. pres., Borough Hall, furnishing all labor and material for building sewers in Rutland Rd. from Remsen to Nostrand Aves.; Kingston Ave. from Rutland Rd. to Montgomery St.; Midwood St. from Kingston to Nostrand Aves.

Pa., Harrisburg—See "Waterworks."

Md., Baltimore—Until May 7, at office of City Register, City Hall, furnishing and erecting 400 hp. water tube boiler, also one 400 and three 260 hp. mechanical sidefeed stokers and drivers for Sewage Pumping Station, Eastern Ave. and President St; advertised in this issue.

Sewers (Continued)

O., Cleveland—Until May 14, (change of date) by Comr. Purchases and Supplies, 229 City Hall Bldg., building sewage treatment works at westerly site. Work includes building grit chambers, 2-story settling tanks, outfall conduits, etc., and involves 15,000 lin.ft. wooden piling, 30,000 cu.yd. excav., 15,000 cu.yd. concrete, 850 tons steel reinforcement, 60 tons c. i. piping, etc. E. Shattuck, comr.

O., Cleveland—City receiving bids building sewers in East 40th St. from Central to Scoville Aves., involving 1330 ft. 5 ft. brick sewers, 1330 ft. 6 in. underdrain, 160,000 ft. B. M. hardwood grillage and 30 ft. 12 in. vitr. pipe. R. Hoffman, city engr.

Mich., Niles—Until May 27, by city, building 20-48 in. trunk sewers. About $108,000. C. W. Cole, 529 J. M. S. Bldg., South Bend., Ind., engr.

Ia., Des Moines—Until May 5, by city, building sewer and water connections in about 160 blocks. C. Kastburg, city engr.

Neb., Humphrey—Until May 14, by J. A. Zavadil, city clk., building 4 mi. sanitary sewer, 8-12 in. vitr. pipe. About $25,000. W. E. Standeven, 414 Bee Bldg., Omaha, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—City let contract building rein.-con. sewer in Blackstone St., involving 1175 ft. 4 ft. x 4-6 in. rein.-con. pipe, 2000 cu.yd. earth trenching, 20 tons reinforcing steel, to W. Barrett, 27 Hunneman St., Dorchester, $43,890; in Tremont St., involving 125 ft. 12 and 18 in. vitr. pipe, 200 cu.yd. earth trenching, to V. Grande, 59 Hull St., $8224.

N. Y., New York—H. Bruckner, pres. Bronx Boro., received bids Apr. 22, building sewers and appurtenances in Rhinelander Ave., etc., (type A), from Govern Constr. Co., Bronx, $54,969; A. Russiano, $54,850; (type B) Anida Constr. Co. Bronx, $58,-$482; C. W. McDonald, $62,194. Noted Apr. 17.

Pa., College Hill (Easton P. O.)—City Council received bids building 28,000 ft. sewers with necessary manholes, flush tanks, etc., from H. George Co., Youngstown, $33,000; Elder & Ferry, New Castle, $39,000. Noted Apr. 3.

★**Pa., Pittsburgh**—City let contracts installing sewers in Jackson St., to Manella Constr. Co., Pittsburgh, $979; Baltimore and Ohio property and Ethel St., to M. O'Herron, 1st and McKean Sts., $7247; Methyl St., to F. and F. Diulus, 40 Boundary St., $12,095; Soho Playgrounds, to J. Bellisario, $1958. Noted Apr. 17.

★**O., Cleveland**—City let contracts to D. Pfahl, 724 Guardian Bldg., building sewers in Parkgrove Ave. from East 156th to 161st Sts., $4861; Hale Ave. and East 147th St. from Sylvia Ave. to East 152nd St., $3657; Sylvia Ave. from East 140th to 152nd Sts., $11,931; Huntmere Ave. from East 156th to 161st Sts., $4720; Grovewood Ave. from East 156th to 161st Sts., $4889. A. C. Hattendorf, 13601 6th Ave., East 156th St. from Holmes to St. Clair Aves., $3377. Water & Sewer Impvt. Co., 345 The Arcade, Damon Ave. from East 156th to 161st Sts., $2936; Corsica Ave. from East 156th to 161st Sts., $2770. A. Marra, 610 Park Bldg., East 140th St. from St. Clair to Castelia Aves., $4603. Noted Mar. 13.

★**O., Cleveland**—City let contracts building sewers in Joy St., involving 330 ft. 12. in. pipe, to H. Mahmood, 9802 Euclid Ave., $735; West 32nd St., 260 ft. 12 and 15 in. pipe, N. Salem, 237 Bradley Court, $957; 9 mi. Creek, 430 cu.yd. class A concrete, 37,000 lb. reinforcing steel, 460 cu.yd. excav., 3800 sq.ft. brick paving and 30 ft. 12 in. pipe, W. P. Gibbons, 340 Leader-News Bldg., $11,266; West 21st and 28th Sts. and Hood Ave., 2780 ft. pipe, Brookside Constr. Co., 3905 West 20th St., $7594; Gifford Ave., 1890 ft. 12 in. pipe, H. Hahn, 2973 East 78th St., $4955; West 18th St., 330 ft. 12 in. pipe, Amata Constr. Co., 343 The Arcade, $874; West 47th St., 810 ft. 12 and 15 in. pipe, Aftoora & Joseph, 887 The Arcade, $1591; Nottingham Rd., 2190 ft. Nos 2-7C brick sewer, 50,000 ft. plank and timber and 390 ft. 12-20 in. pipe, D. Zullo, 10501 Hudson Ave., $39,593. All vitr, pipe. Noted Apr. 10.

★**O., Cleveland**—City let contracts to M. A. Yahya, 3539 Independence Rd., building sewers in Severn Ave., $2297; Joseph & Kalill, 1200 Bolivar Rd. Clyde Ave. from St. Olga Ave. to West 1st St., $1439; St. Olga Ave. from Starkweather to Clyde Aves., $1945; A. J. Galvin, 357 Lennox Bldg., St. Tichan Ave. from Starkweather to Clyde Aves., $1978; Fredericks & Housaine, 635 Bradley Court, Clarence Ave. from West 9th to east end. $5137. Noted Mar. 20.

★**O., Cleveland**—City let contract building sewer in East 96th St. from Seminole to Lowell Aves., to Aftoora & Joseph, 887 The Arcade, $810; East 61st St. from Quincy St. to north end, also Ada Ave. from Lynn Dr. to Lakeview Rd., to Fredericks & Housaine, 635 Bradley Court, $414 and $1164 respectively; East 76th St. from Woodland Ave. to East 75th St., to E. Cesa & Son, $2462 Baldwin Rd., $2289; St. Clair Ave. from East 88th to 93rd Sts., to P. Ciraci, 11811 Browning Ave., $7016; East 130th and 131st St. from Iroquois Ave. to city limits, to Iannetta Bros., 2064 East 125th St., $3830 and $3634 respectively; Lowell Ave. from East 96th to 99th Sts., to W. P. Gibbons, 340 Leader-News Bldg., $979; Adelbert Rd. from Euclid Ave. to New York Central R.R., to W. Nichols & Son, 11422 Fairchild Ave., $19,008; East 18th St. from Prospect to Central Aves., to P. W. Graham, 1274 East 108th St., $26,431. Noted Apr. 10.

O., Cleveland—City received bids building sewers in (a) East 87th St. from Euclid to Hough Aves., (b) East 174th St. from Lakeshore Blvd. to Grovewood Ave., (c) Bosworth Rd. from Thrush to Governor Aves., (d) East 36th St. from Croton Ave. to point 265 ft. south, (e) East 121st St. from Woodland to Hamlen Aves., (f) Church Ave. from West 28th to 29th Sts., from Manson Co., 345 The Arcade, (a) $11,848; Amata Constr. Co., 343 The Arcade, (a) $13,171; (d) $812; (f) $2060; River Constr. Co., 12109 Mayfield Rd., (a) $13,235; B. W. Ernst, 14011 Woodworth Rd., (b) $13,450; Brookside Constr. Co., 3905 West 20th St., (b) $14,094, (e) $2776; P. W. Graham, 1274 West 108th St., (b) $14,659; Sprague & Burkhardt, 12011 Woodland Ave., (c) $4456; H. Hahn, 2973 East 78th St., (c) $4770; (d) $840, (f) $1984; A. Marra, 915 Illuminating Bldg., (c) $5806; M. Yahya, 3539 Independence Ave. 6, (a) $825, H. Mahmood, 9802 Euclid Ave., (e) $2559; Brookside Constr. Co., 3905 West 20th St., (e) $2776; Cairo Bros., 1977 East 126th St., (e) $2863; Iannetta Bros., 2064 East 125th St., (f) $1961. Noted Apr. 17.

O., Toledo—Comrs. Lucas Co. received bids building sewers in Brussels, Berkshire, Barrow and Borden Aves., Overland Heights, involving 6255 ft. 8 in. and 50 ft. 6 in. vitr. pipe, from T. J. Kelly, 626 Avondale Ave., $13,786; Peters Bros., 237 Marion St., $13,997; J. N. Bick, 601 Nasby Bldg., $14,489. Noted Apr. 17.

Mich., Detroit—E. S. Friechkorn, 1268-70 Penobscot Bldg., received lowest 3 bids trenching, laying and backfilling complete lateral sewer system, for Tireman Park subdivision, involving 14,124 ft. 12-24 in. vitr. pipe, from Walker & Teetarte, Penobscot Bldg., $26,499; Brooks & Co. & Adams, Dime Bank Bldg., $27,988; Western Constr. Co., 1208 Ford Bldg., $28,098. Noted Apr. 24.

Wis., Sheboygan—Bd. Pub. Wks., received bids building sewers in North 3rd St. from Bluff to Bell Aves. and in Geele Ave. from North 3rd to North 6th Sts., from South Side Hardware & Plumbing Co., 1512 South 12th St., $11,577; E. M. Schefflow, North 13th St., $12,423; Olson & Murphy, 903 Michigan St., $12,915. Noted Apr. 17.

★**Neb., Omaha**—City let contract building storm sewer in 31st and Farnam Sts. along Turner Blvd. southwest to 34th and Jones Sts., involving 2140 ft. 45-54 in. segmental block and 435 ft. 18 in. vitr. pipe, to Hanson & Willadsen Co., 2907 Douglas St., $25,788; 1153 ft. 48 in. rein.-con. storm sewer from 13th and Emmet St., along railway right-of-way, to E. P. Donahue, 306 Lincoln Blvd., $22,543. J. A. Bruce, City Hall, engr.

Tex., Dallas—City received bids building storm sewer in (a) Fairmont St. from Wellborn to Wolf Sts. and Wolf St. from Fairmont to Maple Sts., involving 1410 lin.ft. 30-36 in. monolithic concrete pipe and 2905 lin.ft. 15-21 in. tile pipe, etc.; (b) Buckner Park from Carroll Ave. to Worth St., 247 lin.ft. 72 in. concrete pipe and 1 concrete manhole; (c) Douglas St. Dist., 4835 lin.ft. 30-60 in. monolithic concrete pipe and 7788 lin. ft. 15-24 in. tile pipe, etc.; (d) Wall St. Dist., 4136 lin. ft. 30-84 in. monolithic concrete pipe and 9321 lin. ft. 15-24 in. tile pipe, etc.; (e) Oak Cliff Dist., from Davis and Beckley to Melba and Madison Sts., 56 lin.ft. 66 in. rein.-con. pipe, 1545 lin.ft. 15-66 in. monolithic concrete pipe and 386 lin.ft. 15-21 in. tile pipe, etc., from Klein Bros. Co., Junius and Walton Sts., (a) $20,757, (b) $3125, (c) $73,-691, (d) $83,301, (e) $17,101; Cramer & Cullum, Dallas, (a) $21,080, (b) $3785, (c) $79,506; F. A. Eldridge, Dallas, (a) $23,668; McCall-Moore Eng. Co., Commonwealth Bldg., (a) $25,353; Dallas Lime & Gravel Co., 1915½ Main St., (b) $2999, (c) $80,347, (e) $19,351; Standard Eng. & Constr. Co., Interurban Bldg., (c) $79,698.

★**Ore., Astoria**—City let contract building Sewer and Drainage System No. 10A, to J. Mattson, Astoria, $13,464.

★**Ont., Orillia**—City let contract laying sewers in various streets, to Curran & Clement, Orillia. About $30,000. Noted Mar. 20.

Bridges

PROPOSED WORK

N. Y., Albion—Town and Western New York Utility Co. soon receive bids building new waterport bridge over Oak Orchard Creek. About $65,000. Town will appropriate $30,000 toward cost. Address P. H. Stowell, superv.

N. Y., Castleton—New York Central R. R., Grand Central Terminal, New York City, had plans prepared, by H. W. Kittredge, engr., Grand Central Terminal, New York City, building ½ mi. rein.-con. bridge, 27 ft. wide, from here to Ravina. About $10,000,000.

Pa., Leetsdale—Comrs. Allegheny Co. (Pittsburgh), soon let contract building 110 ft. stone and concrete bridge, 50 ft. wide with 37 ft. arch., over Sewickley Creek, between Allegheny and Beaver Counties. Work involves 150 sq.yd. concrete sidewalk, 9000 lbs. steel, 1250 cu.yd. masonry, 1100 cu.yd. earth approach and fill, and 400 ft. concrete curbing. J. G. Cholfont, Court House, engr.

Pa., Reading—Berks Co. receives bids in June building Bingaman St. viaduct over Schuylkill River on Railroad St. Work includes tearing down old iron bridge, building temporary foot bridge and demolishing few buildings on present site, etc. About $1,000,000. C. F. Saunders, co. engr.

Pa., Scranton—City and Scranton Ry. 284 Lackawanna Ave., plan to improve and repair Lackawanna Ave. bridge. About $20,000. W. Schunk, city engr.

Md., Baltimore—Baltimore & Ohio Ry. Charles and Baltimore Sts., plans to build two 88 ft. steel and concrete trestles, 22 ft. wide, over Key Highway, at Locust Point. About $20,000. H. A. Lane, ch. engr.

Fla., Waldo—Comrs. Alachua Co. (Gainesville) receive bids in May building 170 ft bridge over Santa Fe River between here and Hampton, 16 ft. wide, 4 ft. high. W. E. Bryant, chn. co. comrs.

Minn., Elk River—See "Streets and Roads."

Wyo., Cody—See "Streets and Roads" under Wyoming.

Wyo., Kemmerer—See "Streets and Roads" under Wyoming.

Mo., St. Louis—City having plans prepared building 1400 ft. rein.-con. viaduct over Missouri & Pacific R.R. tracks, at River Des Peres, cost $225,000, also one over Wabash Ry. tracks, at Hodiamont Ave., $32,000. L. R. Bowen, city engr.

Cal., Los Angeles—See "Miscellaneous."

Cal., Redwood City—City plans election to vote on bonds to build 7 concrete bridges, outfall sewerage system, pumping plant, fire house, concrete retaining wall on Maple St. and macadam road leading to pumping station. C. E. Dimmick, city engr.

Que., Cartierville—See "Buildings."

Que., Rawdon—City Council had plans drawn for concrete and steel bridge, 203 ft. long, 16 ft. wide, over Burroughs River. I. E. Vallee, Parliament Bldg., Quebec, engr.

BIDS DESIRED

Conn., New Haven—Until May 8, by city, building 3 span, 125 ft. rolled steel girder beam bridge, encased in concrete, over West River, on Washington Ave., 50 ft. wide, including 25 new abutments and 2 piers, of local sandstone on pile and timber foundation, rein.-con. flooring. F. L. Ford, city engr.; advertised in this issue. Noted Feb. 6.

Ga., Macon—Until May 20, by Comrs. Bibb Co. building 3 large concrete bridges.

O., Bowling Green—Until May 19, at office of R. S. Gillespie, co. aud. building (1) bridge abutment and retaining wall for bridge over Jackson Cut-off, Milton Twp., cost, $16,165; (2) bridge abutment and retaining wall, Jackson Twp., $3976.

Mich., Adrian—Until May 10, by city, building rein.-con. bridge over Raisin River on West Maumee St., 54 ft. between abutments, 22 ft. from floor to bed of stream. N. B. Washburn, comr.; advertised in this issue.

Ia., Charlton—Until May 5, by Bd. Superv. Lucus Co., building one 60 x 18 ft. pony truss bridge on concrete abutments, one 32 x 16 ft. I-beam bridge on concrete abutments and one I-beam bridge, consisting of 3 spans 18 x 18 ft. About $11,990. C. W. Eby, co. engr.

Bridges (Continued)

Ia., Marion—Until May 15, by Bd. Supervs. Linn Co., building 13 concrete box culverts and 2 concrete slab bridges. About $14,462. Work involves 589 cu.yd. rein.-con., 18 tons reinforcing steel and 628 lin.-ft. wood piling. R. W. Gearheart, co. engr.

Minn., Albert Lea—See "Excavation and Dredging."

Minn., Long Prairie—Until Apr. 7, by E. M. Burg, aud. Todd Co., building Bridge No. 3046, 23 ft. long, 20 ft. wide; No. 3065, 40 ft. long, 20 ft. wide. About $10,500. A. M. Graves, Long Prairie, engr.

Kan., Hutchinson—See "Streets and Roads."

Kan., Lawrence—See "Streets and Roads."

Kan., Lyons—Until May 5, by E. H. Sledd, clk. Rice Co., building one 90 ft. steel truss bridge, 20 ft. roadway also one 20 ft. and one 35 ft. rein.-con. bridges, 20 ft. roadway. About $17,500. S. Ainsworth, co. engr.

S. D., Aberdeen—See "Streets and Roads"

Ariz., Jerome—Until May 19, by T. Maddock, state engr., Phœnix, building bridge over Verde River at Cottonwood, near here. About $40,000. Noted Feb. 27.

Wash., Cathlamet—Until May 5, by Comrs. Wahkiakum Co., building 260 ft. pile and timber bridge over Birnie Slough. R. Buswell, chn.

Que., North Temiskaming—Until May 13, by Dominion Government, Ottawa, Ont., building steel superstructure of bridge over Quinze River, Pontiac Co., here, consisting of 2 spans, each 75 ft. long, 2 spans each 237 ft. 1½ in. long, 18 ft. 6 in. clear roadway and rein.-con. floor. Work involves about 500 tons steel. Cost, $80,000. A. Lefleur, c/o Dept. Pub. Wks., Ottawa, ch. engr.

Que., St. Croix—Until May 12, by J. Bedpard, secy. Lotbiniere Co., building concrete and steel bridge over Duchene River between St. Edouard and St. Emilie, 318 ft. long, 18 ft. wide. I. E. Vallee, Parliament Bldg., Quebec, engr. Noted Mar. 13 under "Lotbiniere."

Que., Ste. Marie Monnoir—Until May 3, by Town Secy., building concrete and steel bridge on St. Louis Rd. I. E. Vallee, Parliament Bldg., Quebec, engr.

Que., St. Valerien—Until May 5, by C. Bouthillier, secy. city council, building 3 concrete and steel bridges. I. E. Vallee, Parliament Bldg., Quebec engr. Noted Apr. 24.

Ont., Bright—Until May 12, by G. Oliver, building steel bridge with concrete abutments over Horners Creek, 40 ft. long, 22 ft. wide, for town. About $15,000. E. J. Ure, Woodstock, engr.

Ont., Lindsay—Until May 8, by Bowman & Connor, engrs., 31 Queen St., W., Toronto, building 2 concrete bridges with railings, over Grass River for Victoria Co., 20 and 38 ft. long respectively. About $30,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Conn., New Haven—City received bids building bridge over Mill River on Orange St., (1) concrete; (2) limestone; (a) 70 ft. wide, (b) 60 ft. wide, to have two 32-ft. spans and one 36-ft. span, from C. W. Blakeslee & Sons, 58 Waverley St., (1a) $90,734; (2a) $92,902; (1b) $81,588; (2b) $83,756; C. W. Murdock, 185 Church St., (1a) $95,725; (2a) $97,828; (1b) $84,629; (2b) $86,732; Sperry & Treat Co., 39 Church St., (1a) $99,539; (2a) $101,687; (1b) $90,469; (2b) $92,621. Noted Apr. 3.

★**N. J., Cape May**—Comrs. Cape May let contract building concrete bridge over Cedar Swamp Creek, to S. G. Corson, Ocean City, $15,365.

Wis., Eau Claire—See "Streets and Roads."

Tex., Dallas—City received bids building rein.-con. bridge over Turtle Creek on Fairmont St., from Klein Bros. Co., Juniun and Walton Sts., $29,120; McCall-Moore Eng. Co., Commonwealth Bldg., $29,500; R. J. Estep & Co., South West Life Bldg., $32,182. Noted Nov. 28

Structural Steel

BIDS DESIRED

Ia., Marion—See "Bridges."

Ont., Bright—See "Bridges."

Reinforced Concrete

PROPOSED WORK

Mass., Boston—See "Industrial Works."

Mass., Dorchester (Boston P. O.)—See "Industrial Works."

Cal., San Francisco—See "Industrial Works."

BIDS DESIRED

Ga., Macon—See "Bridges."

Ia., Chariton—See "Bridges."

Ia., Marion—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., South Manchester**—See "Industrial Works."

★**N. J., Cape May**—See "Bridges."

Tex., Dallas—See "Bridges."

Streets and Roads

PROPOSED WORK

Mass., Northampton—City appropriated $75,000 bonds to build permanent roads.

R. I., Providence—City plans to widen, pave and curb North Main St. from Benefit to Grand View Sts. About $350,000. M. H. Bronsdin, city engr.

N. Y., Albany—Bd. Contr. & Supply rejected bids received Apr. 7, paving Ridgefield and Mapleridge Aves. Work will be readvertised. Noted Apr. 17.

N. Y., Mt. Morris—Bd. Trustees plans to expend between $10,000 and $12,000 to improve streets. Address F. P. Conlon, pres.

N. Y., Syracuse—City plans to pave Greenwood Pl. from Clarendon St. to Bristol Pl.; Cortland Ave. from Englewood Ave. to city line; Plum St. to west line Lot 22, Blk. 431; resurface West Water St. from Onondago Creek to West St. and West Fayette St. from Seneca to Geddes Sts.; also build sidewalks on 7th, North and Court Sts. to Lemoyne St. H. C. Allen, city engr.

N. J., Salem—City plans to pave East and West Bway., Front and Oak Sts., Market St. from Bway. to Grant St., Grant St. from Market to 7th Sts., and Griffith St. from Market to 4th Sts.; also improve 7th and Walnut Sts., and Grant Sts. from Hubbell to end of paved portion of lower end 5th St. About $57,000.

W. Va., Beckley—Raleigh Co. soon receives bids building 13 mi. vitr. brick road. C. Scott, Jr., Beckley, engr.

W. Va., Hinton—Summers Co. election May 3, to vote on $36,000 bonds to pave roads in Jumping Branch Dist. Z. V. Burks, Bellpoint, engr.

W. Va., Kingwood—Preston Co. soon receives bids building 3¾ mi. road from Cadell to Rag Tavern. About $23,386. E. H. Wilhelm, Kingwood, engr.

W. Va., Lewisburg—Greenbrier Co. voted on $136,000 bonds, which will be supplemented with Federal and state aid funds, to pave and grade 18 mi. road, 12 ft. wide, and build bridges in Meadow Bluff Dist. Total cost, $199,375. G. H. Hill, Charleston, engr.

W. Va., Morgantown—Monongalia Co., Cass Dist., voted $300,000 bonds to build 17 mi. vitr. brick road, 24 ft. wide. W. S. Downs, Morgantown, engr.

W. Va., Wayne—Wayne Co. soon receives bids building 25 mi. road, 16 ft. wide, brick, concrete or bituminous. About $1,150,000. A. Levering, co. engr.

Ga., Americus—Sumter Co. voted $500,000 bonds to pave roads. Federal Government will appropriate like amount. Noted Mar. 20.

Ga., Camilla—City plans to pave main streets. J. B. McCrary, 1408 3rd Natl. Bank Bldg., Atlanta, engrs.

Ga., Columbus—Muscogee Co. election July 29 to vote on $740,000 bonds to pave main roads.

Ga., Fitzgerald—Ben Hill Co. plans election to vote on $350,000 bonds to build roads.

Ga., Griffin—Spaulding Co. plans election soon to vote on $420,000 bonds to build roads. Federal Government will appropriate like amount if election carries.

Ga., La Grange—Troup Co. plans election to vote on $500,000 bonds to build roads.

Ga., Moultrie—Colquitt Co. voted $500,000 bonds to build about 100 mi. roads. Federal Government will appropriate toward cost.

Ga., Nashville—Berrien Co. election May 14 to vote on $500,000 bonds to build about 75 mi. roads.

Ga., Tifton—Tift Co. election soon to vote on $300,000 bonds to build roads.

Miss., Greenwood—City plans to pave and improve streets. About $40,000.

La., Cameron—Cameron Parish, Rd. Dists. No. 3, 4 and 5, will sell $390,000 bonds June 2, to build highways. T. H. Mandell, Frank Bldg., Lake Charles, engr.

La., Houma—Terrebonne Parish voted $105,000 bonds to build 35 mi. hard surfaced highway from here to Assumption Parish line. Noted Mar. 20.

O., Bowling Green—Wood Co. having plans prepared grading, draining and paving 6 mi. County Line Rd. from Fostoria to Sandusky Co. line, 10 ft. wide, rein.-con., 6 in. thick at sides, 8 in. thick in center. About $213,960. J. Gallier, Bowling Green, engr.

O., Cleveland—City plans to pave West 95th St. from Almira to Maywood Aves., involving 1600 cu.yd. excav., 34,710 sq.ft. 4 in. brick on 6 in. concrete base, and 2810 ft. 5 in. stone curbing; West 44th St. from Denison Ave. to south end, 12,120 sq.ft. 4 in. brick on 6 in. concrete base, 795 ft. 5 in. stone curbing; West 35th St. from Mapledale to Trowbridge Aves., 3200 cu.yd. excav., 62,000 sq.ft. 5 in. brick on 6 in. concrete base, 4600 ft. 5 in. stone curbing; East 119th St. from Kinsman Rd. to Union Ave., 1400 cu.yd. excav., 33,310 sq.ft. 4 in. brick on 6 in. base, 2550 ft. 5 in. stone curbing; East 117th St. from Kinsman Rd. to Ely Ave., 1900 cu.yd. excav., 30,290 sq. ft. 4 in. brick on 6 in. concrete base, 2600 ft. 5 in. stone curbing; East 74th St. from Aetna Rd. to Union Ave., 1350 cu.yd. excav., 33,070 sq.ft. 4 in. brick on 6 in. concrete base, 2780 ft. 5 in. stone curbing; East 49th St. from Czar to Barkwell Aves., 1275 cu. yd. excav., 22,930 sq.ft. 5 in. brick; Roanoke Ave. from West 30th St. to Broadview Rd., 1890 cu.yd. excav., 29,380 sq.ft. 4 in. brick on 6 in. base, 2600 ft. 5 in. stone curbing; Franklin Ave. from Franklin Circle to West 65th St., 22,100 sq.yd. asphalt, 900 sq.ft. 6 in. concrete base, 1000 ft. 5 in. stone curbing; Carnegie Ave. from East 89th to 100th Sts., 12,000 cu.yd. excav., 98,720 sq.ft. 8 in. concrete base, 10,970 sq.yd. asphalt or 3½ wood block, 31,000 sq.ft. 2½ stone flagging, 3450 ft. 5 in. stone curbing; Bessemer Ave. from East 65th to 75th Sts., 8570 cu.yd. excav., 98,400 sq.ft. 5 in. brick on 6 in. concrete base, 5760 ft. 5 in. stone curbing; Aetna Rd. from East 93rd St. to Erie R.R., 3000 cu.yd. excav., 30,515 sq.ft. 5 in. brick on 6 in. concrete base, 2311 ft. 5 in. stone curbing. R. Hoffman, city engr.

O., Columbus—City plans to grade, curb, pave and lay water mains in 2 mi. 5th Ave. from Perry St. to alley west of Parker St., 30-32 ft. wide, brick or asphalt. About $127,407. H. A. Maetzel, city engr.

O., Columbus—City plans to pave 1200 ft. Franklin Park W. from Broad St. to Franklin Park S., 30 ft. wide. Work involves 2950 sq.yd. asphalt on present brick pavement and 1220 cu.ft. brick gutters. H. A. Maetzel, city engr.

O., Columbus—Comrs. Franklin Co. plan to improve 3.6 mi. Groveport Pike, 3.2 mi. Refugee Rd., 4.5 mi. Opossum Run Rd., 0.75 mi. Durr Rd., 5.75 mi. Brice Rd., 3.2 mi. James Rd., 3.4 mi. Columbus and Gahanna Rd., 4 mi. Dublin and Worthington Rd. and 5.5 mi. Olentangy River Rd.

O., Columbus—Franklin Co. soon receives bids grading and paving 12½ mi. Georgeville Rd., 18 ft. wide, waterbound macadam. J. A. Dunn, co. engr.

O., Dayton—City plans to pave 2000 ft. 3rd St. from Perry to St. Clair Sts. Work involves 13,400 sq.yd. wood block, 4200 lin.-ft. granite curbing and 2000 sq.ft. cement sidewalk. F. O. Eichelberger, city engr.

O., St. Bernard—City plans to lower grade of Carthage Pike over Miami and Erie Canal and resurface with granite. Work involves 1800 sq.yd. granite block on 6 in. concrete base, 400 sq.yd. bituminous, 520 lin.ft. granite curbing (reset) and 4000 sq.yd. 4 in. cement sidewalk. H. A. Nunlist, 309 Traction Bldg., Cincinnati, engr.

O., Springfield—City plans to pave 802 ft. Spring St. from High to Columbia Sts., 45 ft. wide, cost $15,641; 4563 ft. Limestone St. from Washington to Rice Sts., 45 ft. wide, $104,810; 926 ft. Limestone St. from Main St. north, 43½ ft. wide, $24,280. O. E. Carr, city mgr.

O., Springfield—Clark Co. having plans prepared paving Natl. Rd. from Donnelsville to Miami Co. line and Dayton-Springfield Rd. from Springfield to Green Co. line, 16 ft. wide, concrete, brick or macadam. W. H. Sieverling, co. engr.

Streets and Roads (Continued)

O., Toledo—City plans to grade, drain, curb and pave 1309 ft. Upton Ave. from Dorr St. to Avondale Ave., 26 ft. wide, involving 2269 cu.yd. earth excav. Bids will be received on all types of pavement. About $22,719. H. A. McClure, city engr.

O., Toledo—Comrs. Lucas Co. having surveys made and plans prepared grading, draining and paving 3.75 mi. Archbold-Whitehouse Rd., No. 132, 10 ft. wide; 2.96 mi. Midway Rd. No. 115 from Toledo-Wauseon I. C. H. to Waterville Twp. line, 10 ft. wide; 2.56 mi. Midway Rd. No. 115 from Obee No. 138 to Whitehouse-Spencer Rd. No. 117, 10 ft. wide. All waterbound macadam. C. L. Rood, co. engr.

Mich., Detroit—Dept. Pub. Wks. soon receives bids paving streets with asphaltic concrete on 6 in. concrete base, Berea or Medina curbstone, and alleys with 1 course concrete with retaining plank sides; Florida Ave. from Michigan to Radcliffe Aves., 26 ft. wide, cost $56,205; Philadelphia Ave. from Linwood Ave. to Dexter Blvd., 26 ft. wide, $35,767; Tireman Ave. from Epworth Blvd. to Livernois Ave., 30 ft. wide, $26,132; 12th St. from Webb to Fenkell Aves., 32 ft. wide, $138,375; alleys in block bounded by Cameron, Richmond, Clay and Euclid Aves., 11-19 ft. wide, $8100; 3rd, 2nd, Pingree and Blaine Aves., 19 ft. wide, $4830; Elmwood, Moran and Palmer Aves., also East Grand Blvd., 17 and 20 ft. wide, $5460; T alley between Wilson, Kipling, Bethune Aves. and West Grand Blvd., 18 ft. wide, $5600; T alley between Chene St. and Jos. Campau, Hunt and Charlevoix Aves., 20 ft. wide, $6850; alley east of and parallel to McClellan Ave. between Marietta and Cutler Aves., 20 ft. wide, $1360; Wilson and Byron Aves. and Chicago and Boston Blvds., 20 ft. wide, $5140. C. W. Hubbell, city engr.

Mich., Detroit—Dept. Pub. Wks. soon receives bids paving with asphaltic concrete on 6 in. concrete base, Berea or Medina curbing, Weyher Ave. from McClellan to Pennsylvania Aves., 26 ft. wide, cost, $9600; Walbridge St. from Van Dyke to Maxwell Aves., 26 ft. wide, $8700; Sunset Pl. from Woodward Ave. to John R. St., 24 ft. wide, $10,110; Brandon Ave. from Junction to Campbell Aves., 26 ft. wide, $8232; Sargent St. from Elmwood to Moran Sts., 20 ft. wide, $7800; Fremont Pl. from Elmwood to Ellery Sts., 20 ft. wide, $13,050; Collingwood Ave. from 12th St. to westerly terminus, 26 ft. wide, $17,719; Pittsburgh Ave. from Gilbert St. to Martin Ave., 26 ft. wide, $17,212; Casgrain Ave. from Army St. to Desmond Pl., 26 ft. wide, $28,750; also alley between Larchmont St., Firwood, Scotten and Tirman Aves., 20 ft. wide, 1 course concrete, $6360; T alley in block bounded by Chene St., Joseph Campau Ave., Antietam and Chestnut Sts., 15 and 20 ft. wide, 1 course concrete, $7010. C. W. Hubbell, city engr.

Mich., Detroit—Dept. Pub. Wks. soon lets contract paving on 6 in. concrete base, Berea or Medina curbing, (a) Distel Ave. from Fort to Olivet Sts., 26 ft. wide, involving 2162 sq.yd. asphaltic concrete, 1425 lin.ft. curbstone, 941 cu.yd. excav., 35 cu. yd. concrete under curbing, 99 lin.ft. retaining stone;

(b) Gartner Ave. from Beard to Lawndale Aves., 26 ft. wide, 12,588 sq.yd. asphaltic concrete, 8083 lin.ft. curbstone, 6696 cu.yd. excav., 234 cu.yd. concrete under curbing, 724 lin.ft. retaining stone;

(c) Harper Ave. from Hurlburt to Montclair Aves., 40 ft. wide less 18 ft. track space, 4167 sq.yd. asphaltic concrete, 3003 lin.ft. curbstone, 3584 cu.yd. excav., 155 cu. yd. concrete under curbing, 412 lin.ft. retaining stone, 3334 ft. 3 x 12 in. retaining plank;

(d) Senator Ave. from Beard to Lawndale Aves., 26 ft. wide, 12,331 sq.yd. asphaltic concrete, 7643 lin.ft. curbstone, 6511 cu.yd. excav., 231 cu.yd. concrete under curbing, 666 lin.ft. retaining stone;

(e) Alley No. 985, 18 ft. wide, 1830 sq.yd. 1 course concrete, 569 cu.yd. excav., 1725 ft. 2 x 6 in. retaining plank;

(f) Alley No. 986, 20 ft. wide, 1606 sq.yd. 1 course concrete, 611 cu.yd. excav., 1425 ft. 2 x 6 in. retaining plank;

(g) Alley No. 987, 20 ft. wide, 1550 sq.yd. 1 course concrete, 13 lin.ft. curbstone, 670 cu.yd. excav., 1 cu.yd. concrete under curbing, 27 lin.ft. retaining stone, 1136 ft. 2 x 6 in. retaining plank;

(h) Alley No. 988, 20 ft. wide, 1418 sq. yd. 1 course concrete, 569 cu.yd. excav., 56 lin.ft. retaining stone, 1260 ft. 2 x 6 in. retaining plank;

(i) Alley No. 989, 20 ft. wide, 578 sq.yd. 1 course concrete, 192 cu.yd. excav., 27 lin. ft. retaining stone, 417 ft. 2 x 6 in. retaining plank;

(j) Alley No. 990, 20 ft. wide, 1697 sq.yd. 1 course concrete, 598 cu.yd. excav., 1508 ft. 2 x 6 in. retaining plank. C. W. Hubbell, city engr.

Ill., Moline—City having plans prepared paving 15th St. from 23rd to 29th Aves.; 14th St. from 28th to 34th Aves.; 26th Ave. from 15th to 16th Sts.; 28th and 29th Aves. from 14th to 16th Sts. About $80,756. L. Payton, city engr.

Ill., Moline—City plans to pave 24th Ave. from 16th to 18th Sts. A; 18th St. from 23rd to 24th Aves.; 18th St. A. from 23rd to 25th Aves.; 48th St. from 2nd to 5th Aves.; also build watermains in 27th Ave. from 4th to 7th Sts. L. Payton, city engr.

Ia., Cherokee—Bd. Control of State Institutions, Capitol, Des Moines, soon receives bids paving 1½ mi. road bordering Iowa Hospital for Insane, here, 18 ft. wide, concrete, monolithic brick or asphaltic concrete. F. H. Mann, Ames, constr. engr.

Ia., Council Bluffs—Bd. Control of State Institutions, Capitol, Des Moines, soon receives bids paving 1 mi. road bordering Iowa State School for Deaf, here, 18 ft. wide, concrete, asphaltic concrete or monolithic brick. About $25,000. F. H. Mann, Ames, constr. engr.

Minn., Elk River—Comrs. Sherburne Co. plan to pave and build bridges on 10 mi. road, 18 ft. wide, involving 106,000 sq.yd. paving and 50,000 cu.yd. excav. About $250,000. F. W. Nickerson, Elk River, engr.

Minn., Fairmont—Comrs. Martin Co. plan to grade and gravel 17 mi. road, 24 ft. wide, involving 20,000 cu.yd. gravel surfacing and 90,000 cu.yd. excav. About $100,000. G. A. Taber, Fairmont, engr.

Minn., Faribault—Comrs. Rice Co. plan to pave 17 mi. road, 16 ft. wide, involving 175,000 cu.yd. paving and 80,000 cu.yd. excav. About $400,000. W. P. Chapman, Faribault, engr.

Minn., Glenwood—Comrs. Pope Co. plan to grade and gravel 32 mi. road, 24 ft. wide, involving 38,000 cu.yd. gravel surfacing and 180,000 cu.yd. excav. About $160,000. L. Martin, Glenwood, engr.

Minn., Henderson—Comrs. Sibley Co. plan to grade and gravel 20 mi. road, 24 ft. wide, involving 24,000 cu.yd. gravel surfacing and 120,000 cu.yd. excav. About $100,000. S. F. Nullen, Gaylord, engr.

Minn., Long Prairie—Comrs. Todd Co. plan to grade and gravel 30 mi. road, 24 ft. wide, involving 36,000 cu.yd. gravel surfacing and 180,000 cu.yd. excav. About $150,000. A. M. Graves, Long Prairie, engr.

Minn., Morris—Comrs. Stevens Co. plan to pave 10 mi. road, 18 ft. wide, involving 105,000 cu.yd. paving and 60,000 cu.yd. excav. About $250,000. W. A. Hunt, Morris, engr.

Minn., Morris—Comrs. Stevens Co. plan to grade and gravel 30 mi. road, 24 ft. wide, involving 36,000 cu.yd. gravel surfacing and 180,000 cu.yd. earth excav. About $150,000. W. A. Hunt, Morris, engr.

Minn., New Ulm—City soon lets contract for 4500 lin.ft. concrete curb and gutter on Franklin St. from Center to 5th Sts. S. and 5th St., S. from Washington to Franklin Sts. W. P. Backer, city clk.

Minn., Olivia—Comrs. Renville Co. plan to pave 8 mi. road, 18 ft. wide, involving 84,000 cu.yd. paving and 40,000 cu.yd. excav. About $200,000. F. M. Shepard, Olivia, engr.

Minn., Pipestone—Comrs. Pipestone Co. plan to gravel surface 42 mi. road, 24 ft. wide, involving 50,000 cu.yd. graveling. About $100,000. E. Keeler, Pipestone, engr.

Minn., Princeton—Comrs. Millelacs Co. plan to grade and gravel 19 mi. road, involving 20,000 cu.yd. gravel surfacing and 100,000 cu.yd. excav. About $90,000. A. W. Lenard, Millelacs, engr.

Minn., Red Lake Falls—Comrs. Red Lake Co. plan to issue $25,000 bonds to hard surface 10 mi. Jefferson Highway between here and Terrebonne.

Minn., Redwood Falls—Comrs. Redwood Co. plan to improve 20 mi. road, 24 ft. wide, involving 24,000 cu.yd. gravel surfacing, cost, $60,000; 6 mi. road, 16 ft. wide, 63,000 sq.yd. paving and 18,000 cu.yd. earth excav., $140,000 H. Nyron, Redwood Falls, engr.

Minn., Slayton—Comrs. Murray Co. plan to grade and gravel 16 mi. road 24 ft. wide, involving 19,000 cu.yd. gravel surfacing and 110,000 cu.yd. excav. About $80,000. G. L. Minder, Slayton, engr.

Minn., Sleepy Eye—Town rejected bid received Apr. 12, building 5½ mi. road and culverts in Home Twp. Work will be readvertised. Noted Apr. 3.

Minn., Windom—Comrs. Cottonwood Co. soon let contract building 17.5 mi. Federal Aid Project No. 43, State Rd. No. 12, involving 120,121 cu.yd. excav. And loading and hauling 21,000 cu.yd. gravel surfacing material. About $300,000. D. R. Savage, Windom, engr.

Minn., Worthington—Comrs. Nobles Co. plan to grade and gravel 24 mi. road, 24 ft. wide, involving 29,000 cu.yd. gravel surfacing and 150,000 cu.yd. excav. About $120,000. R. J. Boomer, Worthington, engr.

N. D., Grand Forks—City plans to pave 1 mi. 4th, 5th and 6th Sts. from Cheyenne to Griggs Aves., concrete. C. A. Giles, city engr.

Wyoming—State Highway Comn., Cheyenne, plans to build roads and bridges in following counties:

Albany Co., 10.75 mi. Sect. 1, earth and gravel and 26.87 mi. Sect. 2, gravel, Laramie-North Park Rd., cost $11,905 and $73,887 respectively. Albany and Carbon Counties, 23.4 mi. Medicine Bow-Marshall Rd., earth, $10,350.

Carbon Co., 13.88 mi. Baggs-Wamsutter Rd., earth, $14,500.

Lincoln Co., 6.23 mi. Sect. 1, 6.59 mi. Sect. 2, and 4.18 mi. Sect. 3, Cokeville-Star Valley Rd., earth, $13,428, $20,604 and $19,998 respectively; 4.12 mi. Sect. 1, gravel, and 9.17 mi. Sect. 2, earth, Big Piney Rd., $8125 and $30,968 respectively; Wilson-Moran Rd. and timber bridges, $24,310.

Natrona Co., 5.5 mi., bitulithic concrete, 2 mi. sand clay and 35.22 mi. earth, Casper-Salt Creek Rd., $219,735.

Niobrara Co., 6.76 mi. Sect. 1 and 11.27 mi. Sect. 2, Hat Creek-Warren Rd., earth, $10,000 and $20,227 respectively.

Park Co., Cody-Meeteetse Rd., including rein.-con. or I beam bridge, $8564; 1.2 mi. Wheat-Laramie Rd., earth, $4100.

Sheridan Co., 8.02 mi. Sheridan-Big Horn Rd., concrete or asphaltic gravel, $169,380.

Sweetwater Co., 14 mi. Eden Valley Rd., earth, $15,987; 7.5 mi. Spring Canyon Rd., earth, $7689.

Uinta Co., 1.5 mi. Carter-Lyman Rd., earth, $2242; 3.83 mi. Ft. Bridger-Urie Rd., earth, $5896. Noted Jan. 16.

Mont., Big Timber—Comrs. Sweet Grass Co. plan to grade 6 mi. Big Timber-Harlowton Rd. and 10 mi. Glasston-Big Timber Rd., $15,500 and $27,000 respectively. P. D. Pratt, Helena, state highway engr. Noted Apr. 3.

Mont., Butte—Silver Bow Co. election in July to vote on $300,000 bonds to build roads. Federal Government will be asked to appropriate like amount. P. D. Pratt, Helena, state highway engr.

Mont., Glendive—Dawson Co. election in July to vote on $125,000 bonds to build roads. Federal Government will be asked to appropriate like amount. P. D. Pratt, Helena, state highway engr.

Mont., Helena—City plans to pave 6th Ave. from Allen St. to Montana Ave., concrete, 20 ft. wide. About $25,000. J. McLeod, city engr.

Mont., Sidney—Richland Co. election in July to vote on $125,000 bonds to build roads. Federal Government will be asked to appropriate like amount. P. D. Pratt, Helena, state highway engr.

Mo., St. Louis—City plans to widen 3 mi. 12th St. from Washington to Florrisant Aves., from 60 to 80 ft. wide. H. Bartholomew, 5408 Maple Ave., engr.

Mo., St. Louis—City plans to widen 1 mi. Washington Ave. from Jefferson to Grand Aves., from 60 to 80 ft. wide. About $568,000. W. W. Horner, city engr.

Tex., Fairfield—Comrs. Freestone Co. soon receive bids grading, macadamizing and building rein.-con. bridges and culverts on 2.79 mi. Highway No. 7, including road up to precinct line of county, 60 ft. wide. About $40,500. Work involves 1.6 acres clearing and grubbing, 2.79 mi. macadam and gravel surfacing, 262 cu.yd. rein.-con. and 18,315 cu.yd. earth excav. T. E. Huffman, c/o Bryant & Huffman, Littlefield Bldg., Austin, engr.

Idaho, Idaho Falls—City election May 9. to vote on $58,000 bonds to pave streets. G. B. Riches, city clk.

Arizona—State and Federal Government plan to pave 7 mi. road from Tempe to Mesa. About $207,000. T. Maddock, Phoenix, state engr.

Oregon—State Highway Comn., Salem, plans to build highway from Lakeview to Klamath Falls. W. L. Thompson, comr.

Ore., Cottage Grove—City plans to improve 12th St. from Madison to Main Aves.; Quincy Ave. from 1st to 6th Sts. and Jefferson Ave. from 10th St. east to end of avenue. O. L. Nichols, engr.

Streets and Roads (Continued)

Ore., Helix—City having plans prepared paving various streets. Cost to exceed $10,000.

Ore., Hillsboro—City plans to improve Jackson, 7th, West Maple and 6th Sts. E. McCormick, city recorder.

Ore., Pendleton—Umatilla Co. applied to State Highway Comn., Salem, for aid to complete Wild Horse Rd. from Eastland to Washington state line, also build hardsurface road from Reith west to Morrow Co. line.

Ore., Pilot Rock—City plans to plat John W. Etter land northeast of here on Pendleton Rd. for new addition to city.

Ore., Seaside—City plans to pave and improve streets. E. S. Abbott, city aud.

Cal., Beverly Hills—See "Miscellaneous."

Cal., El Centro—Comrs. Imperial Co. recommended paving 40 mi. road from Niland to Calexico, via Calipatria, Brawley, Lockwood, Imperial, El Centro and Heber; 20 mi. road from Mt. Signal near Calexico to Bond's Corner; 12 mi. road from El Centro to Holtville and eastward; 20 mi. cross road east and west about 7 mi. north of here; 15 mi. cross road east and west on Brawley Rd.; 15 mi. road west of Holtville to connect easterly ends of above cross roads. G. R. Wade, Brawley, co. highway engr.

Cal., Los Angeles—See "Miscellaneous."

Cal., Manteca—City plans to pave 2 mi. Yosemite Ave. and Hogan Rd., 30 ft. wide, asphaltic macadam 6 in. thick. About $31,500. Noted Apr. 10.

Cal., Modesto—City plans to pave and curb 3 blocks Stanislaus St., concrete. About $15,000.

Cal., Redwood City—See "Bridges."

Cal., Visalia—Comrs. Tulare Co. plan to build 10 mi. mountain road from forks on Yule River east of Porterville to Camp Nelson. L. Moye, co. surv.

N. S., Wolfville—City voted $25,000 bonds to pave and improve streets.

Que., St. Edouard de Frampton—F. E. Boutin, secy. municipal council, soon lets contract building 7 mi. gravel road between Frampton and St. Malachie. About $30,000. G. Henry, Parliament Bldg., Quebec, engr.

Ont., Bridgeburg—Comrs. Welland Co. (Welland) plan to build 1 mi. experimental concrete highway on Garrison Rd. Success or failure of experiment to determine expenditure of $100,000 ultimately on Garrison Rd.

Ont., Cayuga—Dept. Highways, Parliament Bldg., Toronto, plans to build road from Wentworth Co. to Jarvis and 2 mi. road on Indian line from Nelles Corners to Fisherville Side Rd. About $100,000.

Ont., Hamilton—City having plans prepared paving Balmoral, Beechwood, East Bend and Hilda Sts. About $43,000. E. R. Gray, City Hall, engr.

Ont., Islington—City plans to build 4 mi. road. About $40,000. E. A. James, 57 Adelaide St. E., Toronto, engr.

Ont., Mimico—City instructed James, Loudon & Hertzberg, engrs., 36 Toronto St., Toronto, to make surveys, prepare plans and receive bids for paving streets with bituminous concrete. About $75,000.

Ont., Williamstown—Glengarry Co. plans to expend $150,000 to improve roads and build culverts during 1919. J. Watson, Williamstown, clk.

BIDS DESIRED

Mass., Pittsfield—Until May 10, by Bd. Pub. Wks., building appurtenances and paving South and West Housatonic Sts. and Pecks Rd. A. B. Farnham, city engr.; advertised in this issue.

New York—Until May 15, by State Highway Comn., 55 Lancaster St., Albany, completing highways in following counties: Cattaraugus Co., 3 highways, 6.88 mi., 4.73 mi. and 2.17; Chautauqua Co., 3.90 mi.; Delaware Co., 6.51 mi.; Erie Co., 5.19 mi.; Montgomery Co., 2 highways, 2.49 mi. and 1.61 mi.; Nassau Co., 3 highways, 4.98 mi., 3.09 mi. and 3.38 mi.; Niagara Co., 7.79 mi.; Onondaga Co., 5.55 mi.; Orange Co., 9.18 mi.; Ulster Co., 3.17 mi.; Wayne Co., 3.97; building highways in Onondaga Co., 3.94 mi.; Rensselaer Co., 3.80 mi.; also repairing highways in Columbia, Livingston, Montgomery, Niagara, Orange, St. Lawrence, Steuben, and Westchester Counties. F. K. Greene, comr.; advertised in this issue.

N. Y., Brooklyn—Until May 7, by E. Riegelmann, boro. pres., Borough Hall, regulating, curbing, grading and laying sidewalks on Atkins Ave. from New Lots to Hegeman Aves.; also regulating and relaying with permanent asphalt pavement on 6 in. concrete foundation, Bayard St. from Manhattan to Graham Aves.; Conway St. from Bway. to Bushwick Ave.; Gravesend Ave. from Ave. T to Gravesend Neck Rd.; Humboldt St. from Stagg to Meserole Sts.; North 5th St. from Berry St. to Bedford Ave.; Sackman St. from Newport St. to Lott Ave.; 12th St. from 7th to 8th Aves.; 40th St. from 3rd to 4th Aves.; Ryerson St. from De Kalk to Lafayette Aves.; West 1st St. from 364 ft. north of West Ave. to West Ave.; New York Ave. from Clarendon Rd. to Newkirk Ave.; with permanent grade 1 granite pavement, Beard St. from Conover to Van Brunt Sts.; Clymer St. from Kent to Wythe Aves.; Congress St. from East River to Columbia St.; Conover St. from Hamilton Ave. to India wharf; Douglass St. from Bond St. to Gowanus Canal; 59th St. from 2nd to 3rd Aves.

N. Y., Cohoes—Until May 8, by city, paving Manor Ave. from intersection Reservoir St. to city line, brick, bitulithic, concrete, tarvia, or bituminous. E. M. Hebert, secy.; advertised in this issue.

N. Y., New York—Until May 5, by C. B. J. Snyder, supt. Bd. Educ., Municipal Bldg., grading, paving, draining, etc., playground adjoining P. S. 74, 220 East 63rd St.

N. Y., New York—Until May 9, by F. L. Dowling, pres. Manhattan Boro., Municipal Bldg., regulating and repaving with sheet asphalt on concrete foundation, William St. from Pearl to Fulton Sts.; 7th Ave. from curb to rail, south line 42nd St. to 123 ft. north of north curb 42nd St.; 59th St. from 5th to 8th Aves.; Amsterdam Ave. from 90th to 100th Sts.; 120th St. from 180 ft. more or less west of east river to 1st Ave.

N. Y., Oneonta—Until May 12, by Bd. Pub. Wks. at office of S. H. Close, clk., paving Maple St. from Main to south line Centre St.; Maple St. from south line Center St. to Normal School grounds; Elm St. from Main to Cedar Sts., and Spruce St. from Elm to Maple Sts., bituminous; advertised in this issue.

N. Y., Poughkeepsie—Until May 8, by Bd. Pub Wks., Eastman Park Mansion, furnishing and applying asphaltic oil 40-50% to 300,000 sq.yd. earth and macadam streets during 1919. Price to be per sq.yd. treated. E. W. Sylvester, supt.; advertised in this issue.

N. Y., Rome—Until May 7, by Bd. Pub. Wks. paving North George St. between Linden and Sycamore Sts.; Embargo St. between James and Robert Sts. and North Jay St. between Embargo and Elm Sts., bitulithic, brick and asphalt. About $16,500. J. L. Plunkett, city engr.

N. Y., S. I., St. George—Until May 6, by C. D. Van Name, pres. Richmond Boro., regulating and repaving with bituminous concrete on present macadam foundation, Seaside Blvd. from Sea Ave., to about 2000 ft. south of Sand Lane.

New Jersey—Until May 14, by State Highway Comn., Broad St., Bank Bldg., Trenton, building State Highway Route No. 4, Sect. 1A, Monmouth Co., involving 1400 sq.yd. concrete surface; State Highway Route No. 3, Da Costa-Hammonton Sect., Atlantic Co., involving 46,658 sq.yd. concrete surface. A. L. Grover, ch. clk.

N. J., Trenton—Until May 9, by city, paving 30,262 sq.yd. Hamilton, Market, Lafayette, Calhoun, Greenwood, Ferry and Laclede Sts., asphalt on 6 in. concrete base, also resurfacing Greenwood Ave., and Montgomery St., asphalt on present base. About $106,000. Work involves 2500 sq.yd. concrete gutter and 2500 sq.yd. asphalt gutter. A. Swan, Jr., 506 Riverside Ave., engr.

N. J., Union—Until May 5, by Town Council, improving Hudson and Palisade Aves., cost, $10,000 each. Noted July 18.

Pa., Bellvue—(Pittsburgh P. O.)—Until May 6, by J. M. Simeral, boro. clk., subgrading and paving West Riverview Ave. from Roosevelt Ave. to Gallegher St. Work involves 2270 sq.yd. vitr. brick and 626 cu.yd. earth excav. McBride Surveying & Eng. Co., 331 4th Ave., Pittsburgh, engrs.

Pa., Ebensburg—Until May 9, by Superv. East Carroll Twp., c/o Cambria Co. Controller, reconstructing 7 mi. and 152 ft. from Patton to Carrolltown and from Bradley Junction to 1 mi. south of Carrolltown, 18 ft. roadway of vitr. brick block on concrete base and curb. O. P. Thomas, Leader Bldg., Johnstown, engr.; advertised in this issue.

Pa., Ebensburg—Until May 2, by Superv. Richland Twp., c/o Controller Cambria Co., rebuilding 2.65 mi. Geistown-Elton Rd., Richland Twp., vitr. brick or 2 course rein.-con., on combination concrete base. Noted Apr. 10.

Pa., Ebensburg—Until May 5, by Superv. Summerhill Twp., c/o Controller Cambria Co., rebuilding 1.06 mi. road leading from Beaverdale to Wilmore, Summer Hill Twp., vitr. fire clay or shale brick on combination concrete base.

Pa., Ebensburg—Until May 5, by Superv. Lower Yoder Twp., c/o Controller Cambria Co., rebuilding 1.82 mi. road leading from city line of Johnstown and D St., to township line of Upper Yoder Twp., vitr. fire clay or shale brick on combination concrete base.

Pa., Harrisburg—See "Waterworks."

Pa., Lebanon—Until May 15, by D. M. Sharp, city clk., paving 1500 sq.yd. Cumberland St. from 4th to 5th Sts., 4600 sq.yd. from 9th St. to Pennsylvania R. R. and 9000 sq.yd. from Pennsylvania R.R. to 16th St., also 16,700 sq.yd. Chestnut St. from 4th to 12th Sts. Alternate bids on wood block, vitr. brick, cement concrete, asphaltic concrete and sheet asphalt. P. A. Volcker, city engr.; advertised in this issue.

Pa., Mt. Lebanon—(Pittsburgh P. O.)—Until May 5, by Bd. Comrs. Mt. Lebanon Twp., Allegheny Co., Pittsburgh, rebuilding track of Pittsburgh Rys. Co. on Washington Rd.; also for necessary grading and repaving between rails of tracks. Work involves 3700 lin.ft. track rebuilding and 2840 cu.yd. paving. F. W. Cooke, town clk. McCully Eng. Co., 709 Berger Bldg., Pittsburgh, engrs.

Pa., Phila—Until May 2, by G. E. Datesman, dir. dept. pub. wks., City Hall, grading, paving, surfacing streets and repairing and painting bridges. About $300,000.

Maryland—Until May 6, by State Rds. Comn., 601 Garrett Bldg., Baltimore, paving 0.23 mi. concrete road over Allen Mill Dam, Wicomico and Somerset Counties, Contr. No. 094-A; advertised in this issue.

Md., Cumberland—Until May 15, at office of City Clerk, curbing, paving and otherwise improving 8 streets. Work involves 9135 ft. concrete curbing, 7050 sq.yd. concrete, 930 sq.yd. wood block and 14,200 sq.yd. brick paving, miscellaneous sewer work, etc. Alternate bids will be asked on 11,280 sq.yd. sheet asphalt on part of above-mentioned paving. R. L. Rizer, city engr.; advertised in this issue.

Va., Norfolk—Until May 8, at office of C. E. Ashburner, city mgr., paving Boush St. from Brooke Ave. to Dartmouth St., involving 6130 sq.yd. Durax, Class D, No. 6; also furnishing material and constructing 10,200 lin.ft. concrete curb and gutter, Class C.; advertised in this issue.

W. Va., Pineville—Until May 14, by Wyoming Co. building 4 mi. Elmore-Herndon Rd., near Mullins, 22 ft. wide, involving 40,000 cu.yd. excav. About $40,000. A. B. Shannon, Pineville, engr.

S. C., Great Falls—Until May 12, by Great Falls Farm Co., grading road from here to Wateree, involving 5000 cu.yd. per mile with several stream crossings of 20,000 cu.yd. Work will be let in two sections, Sect. 2, 10 mi. and Sect. 3, 15 mi. A. T. Jones, engr.; advertised in this issue.

Miss., Tylertown—Until May 9, by Highway Comn. Dist. Nos. 1 and 2, Walthall Co., building 11.8 mi. Federal Aid Project No. 36, between Natchez and Mobile, Ala. Work involves 27 acres clearing and grubbing, 60,000 cu.yd. grading, 14,000 cu.yd. gravel. X. A. Kramer, Magnolia, state highway engr.

Tenn., Nashville—Until May 20, at office of J. W. Dashiell, secy. Bd. Comrs., for construction of certain bitulithic paving under Special Benefit Impvt. Ordinances Nos. 102, 103, 104 and 105: asphaltic concrete, No. 106; recut granite block, Nos. 107, 108, 109, 110, 111 and 112; wood block, Nos. 113 and 114; macadam (oil and gravel surface treatment) No. 115; advertised in this issue.

O., Lorain—Until May 8, by Dir. Pub. Serv., furnishing labor and material for 70,000 sq.yd. paving. C. C. Miller, city eng.; advertised in this issue.

O., Toledo—Until May 13, by Comrs. Lucas Co., grading, draining, curbing and paving 3 mi. Shenandoah and Richmond Rds., Potomac and Clarendon Drives, Mt. Vernon, Grand, West Woodruff and Oakwood Aves., Foster and Westmoreland Sts., 24 ft. wide. About $204,638. C. L. Rood, co. engr. Noted Mar. 27.

Ind., Terre Haute—Until May 15, by Bd. Wks. grading and paving 1650 ft. South 16th St., 30 ft. wide. Work involves 1800 cu.yd. grading and 5500 sq.yd. 8 in. concrete, asphalt, wood block or 200,000 brick blocks on 5 in. concrete base. About $17,000. R. A. Koerner, Terre Haute, engr.

Streets and Roads (Continued)

Mich., Milan—Until May 8, by village, grading, draining, curbing and paving 2500 ft. Wabash St. from bridge over Saline River to south corporation line, 16 and 20 ft. wide, involving 8448 sq.yd. concrete, 5427 lin.ft. concrete curbing and 4100 cu.yd. earth excav. Cost $27,695 Bids will be received on all types pavement. G. Champe, 610 Nasby Bldg., Toledo, O., engr.

Illinois—Until May 14, by State Highway Comn., Springfield, paving roads in following counties: Cook Co., 919.6 ft. Sect. 56, Route 15, various widths, involving 2000 sq.yd. concrete, cost $5100;

Crawford Co., 1295 ft. Sect. E, Route 5, 16 ft. wide, 2302 sq.yd. concrete, $8943;

La Salle Co., 5940 ft. Sect. K, Route 15, 15 ft. wide, 9900 sq.yd. concrete, $15,930; 4400 ft. Sect. L, Route 11, 18 ft. wide, 8800 sq.yd. concrete, $17,560.

McLean Co., 9800 ft. Sect. F, Route 7, 16 ft. wide, 7422 sq.yd. concrete, $28,336; 927 ft. Sect. E, Route 7, 1854 lin.ft. guard fence, $1150;

Shelby Co., 3750 ft. Sect. I, Route 5, 16 ft. wide, 6667 sq.yd. concrete, $12,007;

Macoupin Co., 3274 ft. Sect. H, Route 7, 10 ft. wide, 3638 sq.yd. concrete, $7433; 5200 ft. Sect. L, Route 12, 24 ft. wide, earth paving, $2200;

Henry Co., 31,556 ft. Sect. E, Route 6, 15 ft. wide, $20,820; 5200 ft. Sect. F, Route 8, 15 ft. wide, both oiled earth paving, $3913;

Rock Island Co., 19,984 ft. Sect. E, Route 8, 24 ft. wide, earth paving, 14,330 cu.yd. excav., $10,097;

Platt Co., 2900 ft. Sect. D, Route 5, 10 ft. wide, 3222 sq.yd. brick, $9657; 2800 ft. Sect. E, Route 5, 10 ft. wide, 3111 sq.yd. brick, $9437. C. Older, ch. highway engr.

Wis., Sheboygan—Until May 5, by C. U. Boley, engr., City Hall, grading, constructing curbs and gutter and paving with concrete 3925 ft. Lighthouse St. from North 2nd St. to Bay View. Addition, 20 ft. wide, involving 1925 lin.ft. concrete curbing and guttering. Noted Apr. 10.

Wis., Sheboygan—Until May 6, by C. U. Boley, engr., City Hall, paving and curbing sidewalks with combination curb and gutter on 4350 sq.yd. Wisconsin Ave. from North 7th to North 19th Sts., 20 ft. wide, involving 4350 sq.yd. vitr. brick.

Ia., Clarion—Until May 6, by Bd. Supervs. Wright Co., grading 10.37 mi. road, involving 42,000 cu.yd. J. K. Hilton, co. engr.; advertised in this issue.

Ia., Des Moines—Until May 5, by city, curbing and guttering 12,183 ft. from north line Easton Blvd. to north line Washington St., East 18th St. from Court to Maury Sts. and from Maury St. at East 18th St. to East 21st St. About $12,000. C. Kastburg, city engr.

Ia., Estherville—Until May 6, by Bd. Supervs. Emmett Co., grading 13½ mi. Wallingford - Hoprig. Hoprig - Ringstead and Ringstead-Bancroft Rds., 24 ft. wide, involving 65,200 cu.yd. earth excav., cost, $25,156; surfacing 3½ mi. road from here to Armstrong, Spirit Lake and Huntington, Huntington to Dolliver, Wallingford to Terrill and Graettinger, Dolliver, to Maple Hill and Armstrong to Ringstead, 18 ft. wide, involving 26,000 cu.yd. gravel, $32,700. C. P. Smith, co. engr.

Minn., Benson—Until May 22, by Comrs. Swift Co., paving 7 mi. road, 18 ft. wide, grading and graveling 14 mi. road, Federal Aid Project No. 48. About $240,000. L. R. Johnson, Benson, engr. Noted Apr. 10.

Minn., Duluth—Until May 15, by J. A. Farrell, city comr., paving with concrete and laying 5 ft. concrete walk on either side of 21st Ave., east from Superior to 8th Sts., total length 2800 ft., 28 ft. wide. About $36,751.

Minn., Minneapolis—Until May 19, by Comrs. Hennepin Co., grading and paving 5 mi. Lyndale Ave., S., 20 ft. wide, involving 15,000 sq.yd. earth and 59,000 cu. yd. rock excav. About $140,000. C. E. Terrill, co. engr.

Minn., Pipestone—Until May 6, by T. A. Bailey, graveling 13½ mi. Job No. 1901, State Rd. No. 5. About $25,000. E. Keeler, Pipestone, engr.

Minn., Preston—Until May 27, by Comrs. Fillmore Co., grading and graveling 8 mi. Federal Aid Project No. 39, State Rd. No. 1, 20 ft. wide, involving 69,742 cu.yd. earth and 7564 cu.yd. rock excav. About $50,000. W. Dunbar, Preston, engr. Noted Apr. 10.

Minn., Hutchinson—Until May 12 by Hero Co., building Project No. 15, Federal aid road, Sect. A, 37,454 ft. from Rice Co. line to Nickerson, 18 ft. wide; Sect. B, 28,582 ft., southeast from Nickerson, 18 ft. wide; Sect. C, 26,383 ft. northwest from Hutchinson, 18 ft. wide, all monolithic brick; Sect. D, 3 bridges, involving 300 cu.yd. excav., 351 cu.yd. Class A concrete and 13,779 lb. reinforcing steel.

Kan., Lawrence—Until May 23, by Douglas Co., building Project No. 7, Federal aid road, Sect. A, 16,709 ft. long between Douglas-Leavenworth Co. line and Lawrence, 18 ft. wide, concrete; Sect. C, 4735 ft. from west city limits of Lawrence to Station 70 plus 00, 28-32 ft. wide, earth grading; Sect. E, 19,235 ft. from end of Sect. C, Station 70 plus 00 to Station 262 plus 35, 18 ft. wide, concrete; Sect. F, 29,072 ft. from end of Sect. E, Station 262 plus 35 to Station 554 plus 00, 18 ft. wide, concrete; Sect. G, 26,736 ft. from end of Sect. F, Station 554 plus 00 to Station 821 plus 08.18, 18 ft. wide, concrete; Sect. B, 1 rein.-con. deck girder bridge, two 40 ft. spans.

S. D., Aberdeen—Until May 7, by State Highway Comn., at office of Co. Aud., here, grading, graveling, draining and building two 20 ft. span bridges on 12.84 mi. Aberdeen-Webster Rd., 18 ft. wide, Brown Co. Project involves, 42,731 cu.yd. earth excav., 49,343 yd. overhaul excav., 19,272 cu.yd. gravel surfacing, 471 cu.yd. concrete and 29,035 lb. steel. Noted Mar. 6, under "South Dakota."

S. D., Flandreau—Until May 6, by State Highway Comn., at office of Co. Aud., here, grading, graveling and draining, 13.56 mi. Flandreau-Madison Rd., Moody Co., involving 44 sq.yd. clearing and grubbing, 51,168 cu.yd. earth excav., 28,358 yd. overhaul excav., 6181 sq.yd. gravel surfacing, 427 cu.yd. concrete and 26,718 lb. steel. Noted Mar. 6 under "South Dakota."

S. D., Sioux Falls—Until May 15, by State Highway Comn., at office of Co. Aud., here, grading, graveling, draining and building bridges on 21.8 mi. Sioux Falls-Dell Rapids Rd., Minnehaha Co., 24 ft. wide, involving 55 sq.yd. clearing and grubbing, 180 cu.yd. rock excav., 89,666 cu.yd. earth excav., 53,329 yd. overhaul excav., 32,714 cu.yd. gravel surfacing, 100 cu.yd. binder for gravel, 23,993 lb. steel. About $100,600. Noted Mar. 13 under South Dakota.

N. D., Hillsboro—Until May 5, by Traill Co. building 24.87 mi. earth road. About $23,500. Federal Government will appropriate toward cost. W. H. Robinson, Bismarck, state highway engr.

N. D., La Moure—Until May 16, by Comrs. La Moure Co., building 4.79 mi. Federal Aid Project No. 31, gravel. About $29,000. Former bids rejected. Noted Mar. 27.

Montana—Until May 14 by State Highway Comn., Helena, gravel surfacing 2.02 mi. Hardin-Custer Rd.; 7.5 mi. Red Trail east of Glendive; 9 mi. Red Trail west of Glendive; 2.69 mi. Black and White Trail between Red Lodge and Bear Creek. P. D. Pratt, Helena, state highway engr. Noted Apr. 3.

Tex., Columbus—Until May 15, by Comrs. Colorado Co., building 17.12 mi. highway known as Highway No. 4, from Weimer through Columbus to Eagle Lake, 16 ft. wide, gravel macadam with bituminous top. About $160,000. Work involves laying 130 ft. 24 in. and 20 ft. 18 in. galvanized pipe, 1 acre clearing and grubbing 8.81 mi. grader work and 32,274 cu.yd. earth excav. About $160,000. F. M. Rugeley, Columbus, engr.

Wash., Bremerton—Until May 12, by City Council, grading, paving, and building sewers in Burwell Ave., involving 7000 sq.yd. concrete and 3000 cu.yd. earth excav.; Washington Ave., involving 9000 sq. yd. concrete, 7000 ft. combined concrete curb and gutter, $45,600. F. Hathaway, Bremerton, engr. Noted Mar. 27.

Wash., Charleston—Until May 12, by City Council, grading and paving 3 mi. streets, concrete. About $180,000. F. Hathaway, Bremerton, engr.

Wash., Everett—Until May 6, by Comrs. Snohomish Co., surface grading and paving 1 mi. Lowell-Snohomish Rd. (known as Permanent Highway No. 35), 35 ft. wide, involving 5280 cu.yd. earth excav., 240 sq. yd. concrete pipe headers and 10,712 sq.yd. 6 in. concrete; 1.7 mi. Three Lakes Rd., Highway No. 37, 16 ft. wide; 1.25 mi. Maryville and Pilchuck Rd., Highway No. 34, 18 ft. wide, 6251 lin.ft. 8 in. concrete surface grading; 1 mi. Snohomish-Lowell Rd., Highway No. 36, 18 ft. wide, 5280 ft. surface grading and 10,738 sq.yd. 6-8 in. concrete. F. G. Tegtmeier, co. engr.

Wash., Seattle—Until May 12, by Comrs. King Co., improving 1.202 mi. Houghton-Medina-Bellevue Rd., Permanent Highway, No. 2-L, 20 ft. wide, involving 580 sq.yd. gravel and 8255 sq.yd. paving, cost, concrete, $22,469; monolithic brick, $29,899; 1.303 mi. Seattle-Renton Rd., Permanent Highway, No. 23, 13,874 sq.yd. paving, concrete, $36,736, monolithic brick, $19,916; 1.988 mi. Auburn-Enumclaw Rd., Permanent Highway, No. 11-D, 20 ft. wide, 23,334 sq.yd. paving, concrete, $58,807, monolithic brick, $79,808. S. Humes, co. engr. Noted Mar. 13.

Que., Arthabaska—Until May 8, by L. Lavargne, engr., Arthabaska, building 2 mi. macadam roads for town. About $15,000.

Man., Stonewall—Until May 3, by V. W. McFarlane, secy., ditching and grading 40 mi. road in rural municipality of Rockwood. D. M. Mawhimney, Stonewall, engr.

Man., Swan River—Until May 5, by J. Armstrong, secy.-treas., building 35 mi. roads.

PRICES AND CONTRACTS AWARDED

(★Indicates award or contract)

Massachusetts — State Highway Comn., Boston, received bids Apr. 22, building State Highway, Saugus Twp., involving 66,000 gal. bituminous macadam, 11,300 cu.yd. earth and 1500 cu.yd rock excav., from Warren Bros., Berkley St., Boston, $93,711; Welch & Moynihan, South Hamilton, $112,165; Rowe Constr. Co., 1231 Centre St., West Roxbury, $115,368. Noted Apr. 17.

★**Mass., Boston**—City let contracts to M. De Matteo, 154 Dudley St., Roslindale, paving Hallam and Holden Sts., 40 ft. wide, Dorchester Twp., involving 2000 sq.yd. asphalt on 7 in. concrete base, 1215 lin.ft. stone curbing, 6510 sq.ft. concrete sidewalk and 1000 cu.yd. earth excav., $9411; De Stefan Constr. Co., East Boston, Commercial St., 40 ft. wide, involving 7620 sq.yd. granite block on 6 in. concrete base and 2510 lin.ft. stone curbing, $21,664.

Rhode Island—State Bd. Pub. Rds., State House, Providence, received only bid Apr. 16, furnishing and applying 485,000 gal. asphaltic oil or refined tar by macadam sections of state highways, from Standard Oil Co., 26 Bway., New York City, asphalt $0.0657, oil $0.087 per gal. Noted Apr. 3.

★**N. Y., Albany**—Bd. Contr. & Supply let contracts paving Catharine St. to M. F. Dollard, 7 Hall Pl., $6500; paving Braelford St. and building sewer in Frisbie St., to T. Shaughnessy, 34 South Pine St., $7856 and $997 respectively. Noted Apr. 17.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., received bids Apr. 21, regulating and repaving (a) 4th St.; (b) East Ave.; (c) Hamilton St.; (d) 1st Ave.; (e) Jackson Ave. from Thompson Ave. to Bridge Plaza South; (f) from 2nd Ave. to Old Newtown Rd.; (g) from bridge plaza to 2nd Ave.; (h) 13th St., from Scott & Kurth, West New Brighton, S. I., (a) $5631; E. W. Fitzpatrick, 128 3rd Ave., (a) $5794; (g) $56,419; H. J. Mullen, Fulton St., Jamaica, (a) $6170; (d) $18,446; Uvalde Asphalt Paving Co., 1 Bway., New York City, (b) $13,038; (f) $136,525; (h) $45,255; Borough Asphalt Paving Co., 1301 Metropolitan Ave., Brooklyn (b) $14,893; (c) $40,678; (e) $41,820; (f) $136,340; (h) $50,880; Sicilian Asphalt Paving Co., 41 Park Row, New York City, (b) $15,513; (c) $42,074; (e) $36,603; (f) $128,820; (h) $45,703; Cleveland Trinidad Paving Co., Flushing, (c) $41,734; (e) $37,902; (f) $121,625; (h) $45,664; Hastings Paving Co., 25 Broad St., New York City, (d) $16,853; P. J. Kelly, (g) $49,936; T. A. Brown, (g) $52,767. Noted Apr. 17.

N. Y., New York—H. Bruckner, pres. Bronx Boro., received bids Apr. 22, regulating, grading, setting curbstones, flagging sidewalks, laying crosswalks, building approaches and fences, in (a) Corlear Ave.; repaving with granite blocks on concrete foundation, in (b) Morris Park Ave.; repaving with sheet asphalt, (c) Bathgate Ave.; (d) Intervale Ave.; (e) Clay Ave.; (f) East 163rd St.; repaving with bituminous concrete, (g) Vistor St., (h) Walton Ave.; (i) 177th St.; (j) East 178th St., from Spadera Contg. Co., 827 East 217th St., (a) $29,769; Taylor Constg. Co., (a) $33,719; T. Crimmins, 444 East 69th St., (a) $33,776; Leonard Paving Co., 233 Bway., (b) $140,744; P. J. Kearns, 2306 Creston Ave., (b) $141,131 and $144,725; T. Callahan, (b) $143,305; Uvalde Asphalt Paving Co., 1 Bway., (c) $11,280; (d) $16,038; (e) $11,135; (f) $10,435; (g) $6980; (h) $26,505; (j) $8472; Davney Asphalt Co., Inc., 1170 Bway., (c) $11,407; (d) $15,616; (e) $10,791; (f) $9915; (g) $7019; (i) $60,896; (j) $8495; Asphalt Const. Co., 2197 Madison Ave., (c) $11,458; (d) $15,083; (e) $10,464; (f) $9731; (g) $7112; (h) $26,925; (i) $63,737; (j) $8203; Union Paving Co., B'way and 112th St., (h) $27,138; (i) $62,593. Noted Apr. 17.

Streets and Roads (Continued)

N. Y., New York—F. L. Dowling, pres. Manhattan Boro., received bids Apr. 24, regulating and repaving, with sheet asphalt on concrete foundation (a) 10th Ave., (b) 43rd St.; with granite blocks, (c) 7th Ave.; (d) Greenwich St.; (e) 4th Ave., from Davney Asphalt Co., foot of Quinby Ave., (a) $19,072; (b) $8019; Union Paving Co., Bway and 112th St., (a) $19,324; Cleveland Trinidad Paving Co., Flushing Ave., Flushing, L. I., (b) $8217; Sicilian Asphalt Paving Co., 41 Park Row, (b) $8518; W. J. Fitzgerald, 547 West 45th St., (c) $129,594; (d) $109,593; O'Rourke Constr. Co., 150 Nassau St., (c) $131,185; J. J. B. La Marsh, 37 Copper Sq., (d) $105,588; Asphalt Constr. Co., 2197 Madison Ave., (e) $13,870; Burnside Contg. Co., 270 Burnside Ave., (e) $13,121. Noted Apr. 17.

N. Y., New York—F. L. Dowling, pres. Manhattan Boro., received bids Apr. 15, regulating and repaving with granite block on concrete foundation, (a) Park Pl.; (b) Beekman St.; (c) West 155th St., from point 140 ft. west of Washington Heights line of Bway. and Riverside Dr.; (d) with sheet asphalt, roadway of West 155th St. from Bway. to point 140 ft. west of Washington Heights Line of Bway., from O'Rourke Contg. Co., 150 Nassau St., (a) $32,234; (b) $10,349; (c) $18,791; W. J. Fitzgerald, 547 West 45th St., (a) $33,138; (b) $10,241; (c) $20,625; Regan-Towers Co., (a) $33,241; (b) $11,071; (c) $20,098; C. Holbrook, (a) $33,472; (b) $10,526; T. Crimmins, 444 East 69th St., (c) $19,723; Asphalt Constr. Co., 2197 Madison Ave., (a) $34,262; (b) $11,031; (c) $19,742; (d) $4699; Union Paving Co., Bway. and 112th St., (d) $4623; Uvalde Paving Co., 1 Bway., (d) $5030. Noted Apr. 10.

★**N. Y., S. I., St. George**—C. D. Van Name, pres. Richmond Boro., let contract building and repairing sidewalks on both sides of De Hart Ave., to J. Johnson & Sons, West Brighton, $3251; regulating and paving Richmond Turnpike, concrete granite blocks, to C. Vanderbilt, West Brighton, $42,569. Noted Apr. 10.

★**N. Y., Schenectady**—City let contract extending Green and Jefferson Sts. and eliminating bridges over abandoned Erie Canal, together with grading and paving, to J. Duguid, Schenectady, $12,702. Noted Mar. 6.

★**N. J., Cape May**—Comrs. Cape May Co. let contract widening Landis Ave. from Sea Isle City to Strathmere, from 20-30 ft., to E. A. Corson, Ocean City. About $20,000.

N. J., Mt. Holly—Comrs. Burlington Co. received only bid resurfacing 2 mi. Georgetown-Bordentown, Bordentown-Crosswicks Creek and Columbus-Harts Corner Rds., from Ross & Wheland, Broad St., Bank Bldg., Trenton, $175,000

N. J., North Bergen—Town received only bid improving 23rd St. from Hudson Blvd. west to Hackensack Plank Rd. from A. Capone, West Hoboken, Belgian block, $10,000, bituminous concrete, $12,000.

★**Pa., Pittsburgh**—City let contracts grading, paving and curbing following streets: (a) Jupiter Way, (b) Royal St., (c) Eckert Way, (d) Roessler St., (e) Wapello St., (f) Universal St., (g) Arabia Way, (h) Colville St., (i) Mulberry Way, (j) 56th St., (k) 53rd St., (l) Camelia St., (m) McCandless St. from Stanton to 53rd Sts., to J. T. Neelen, Perrysville, (a) $3969, (d) $3685; T. Cronin, 17th and Muriel Sts., (b) $3339, (i) $4539; M. O'Herron, 1st and McKean Sts., (d) $3685, (e) $6685, (h) $3749, (j) $4257; (k) $4190, (l) $24,396, (m) $16,560; McDonough & O'Toole, 3032 Landis St., (f) $28,123; Pittsburgh Paving Co., Bakewell Bldg., (g) $1985. Noted Apr. 17.

Pa., Pittsburgh—City received bids grading, paving and curbing (a) Realty Ave., involving 2245 sq.yd. stone block on 6 in. concrete base, 1844 lin.ft. steel protected curbing, 4877 cu.yd. earth excav.; (b) Creedmore Ave., 2612 sq.yd. vitr. brick and 1060 sq.yd. stone block on 6 in. concrete base, 2964 lin.ft. concrete steel protected curbing, 4840 cu.yd. earth excav.; (c) Hampshire Ave., 2612 sq.yd. vitr. brick and 507 sq.yd. stone block on 6 in. concrete base, 2386 lin.ft. concrete steel protected curbing, 2813 cu.yd. earth excav.; (d) Oakridge Ave., 574 sq.yd. stone block on 6 in. concrete base, 500 lin.ft. concrete steel protected curbing, 328 cu.yd. earth excav.; (e) Stevenson St., 1330 sq.yd. stone block on 6 in. concrete base, 685 lin.ft. steel protected curbing, 904 cu.yd. earth excav.; (f) Tonopah St., 1340 sq.yd. vitr. brick on 6 in. concrete base, 1229 lin.ft. steel protected curbing, 2862 cu.yd. earth excav.; (g) Warrington Ave., 10,660 sq.yd. stone block on 6 in. concrete base, 6565 lin.ft. steel protected curbing, 13,890 cu.yd. earth excav., 1595 cu.yd. trench excav., 79,500 lb. steel reinforcement, 16,000 lb. structural steel, etc., from T. Cronin, South 17th and Muriel Sts., (a) $22,452, (b) $25,720, (c) $18,991, (d) $4467, (e) $10,142, (f) $11,397, (g) $132,921; M. O'Herron, South 1st and McKean Sts., (a) 23,784, (b) $25,946, (d) $4632, (e) $9818, (f) $11,436, (g) $149,124; Booth & Flynn, 1942 Forbes St., (a) $24,036, (c) $19,568, (d) $4296, (e) $9013, (g) $143,248; M. Ott & Co., 414 Warrington St., (b) $26,379; F. and F. Diulis, 40 Boundary St., (c) $19,831; Pittsburgh Paving Co., Bakewell Bldg., (f) $11,061. Noted Apr. 17.

★**Maryland**—State Rds. Comn., 601 Garrett Bldg., Baltimore, let contract building 2.01 mi. Littletown Pike, 20 ft. wide, Carroll Co., Contr. CL-20, to Thomas, Bennett & Hunter, Westminister, $53,644; 3.51 mi. State Highway from Knoxville to Harpers Ferry, 20 ft. wide, Frederick and Washington Counties, Contr. W-16A, to Fisher & Carozza, 803 Calvert Bldg., Baltimore, $89,895; 2.51 mi. Clarkeville Pike, 20 ft. wide, Howard Co., Contr. HO-12, to Clairborne, Johnston & Co., 910 Garrett Bldg., Baltimore, $89,773, all concrete, 3 ft. dirt shoulders; 3.03 mi. Rock Hall-Swan Creek Rd., 14 ft. wide, 5 ft. dirt shoulders, Kent Co., Contr. K-12, to Kaufman & Co., Federalsburg, $76,220. Noted Apr. 10.

★**Md., Baltimore**—Bd. Awards let contracts paving private alleys in various sections of city as follows: Contr. No. 31a, to Arundel Constr. Co., 416 East Lexington St., $15,805; Contr. Nos. 32a and 33a, to G. Long Contg. Co., 1st Ave. and 13th St., $52,195. All cement concrete. Noted Apr. 3.

★**Md., Baltimore**—Bd. Awards let contracts paving Hughes St., old granite block on concrete with cement filler, Contr. No. 161, to P. Reddington & Son, 2 East Lexington St., $6815; Carlton, Rice, Stockton and Woodyear Sts., cement concrete, Contr. No. 162, Lovegrove, Wisen and Wyoming alleys, cement concrete, Contr. No. 163, to F. D. Carozza, 803 Calvert Bldg., $20,883 and $7653 respectively; paving around P. S. No. 47, cement and armored concrete curbing, to Marine Contg. Co., 8 East Lexington St., $2477. Noted Apr. 10.

★**Md., Baltimore**—Bd. Awards let contracts paving McCulloh, Francis, Retreat and Whitelock Sts. and Druid Hill Ave., Contr. 169, to Asphalt Block & The Co., Monroe and Laurens Sts., $170,614. Work involves 19,800 sq.yd. sheet asphalt, 4500 lin.ft. armored concrete curbing, 12,000 lin.ft. old curb redressed and reset, 9900 sq.yd. railway area with 4400 sq.yd. granite block liners, 2300 sq.yd. vitr. brick gutters and 5000 cu.yd. grading. Noted Mar. 27.

★**Md., Baltimore**—Bd. Awards let contracts paving alleys in various sections, cement concrete, Contr. Nos. 37 and 39, to F. M. Latham & Co., 1417 Gorsuch Ave., $34,701 and $34,230 respectively.

★**W. Va., Middlebourne**—Tyler Co. let contract building 2½ mi. Class A bituminous macadam road from Middlebourne to Salem, to Allen & Horner, Clarksburg. About $70,000.

★**Ala., Enterprise**—City let contract paving 5000 sq.yd. Lee and Carmicael Sts., vitr. brick on sand and cement base, to Southern Clay Mfg. Co., Volunteer State Life Insurance Bldg., Chattanooga, Tenn.

★**Ala., Selma**—City let contract to Alabama Paving Co., Amer. Trust Bldg., Birmingham, building concrete sidewalks on both sides of Alabama Ave. from west curb line of Lauderdale St. to east curb line of Satterfield St.; Selma Ave. from east line of King St. to west line of Lauderdale St. and Selma Ave. from east curb of Broad St. to west curbline of Mechanic St., $1.45 per sq.yd. Noted Apr. 3.

★**Ky., Shelbyville**—City let contract paving 860 ft. Main St. between 6th and 8th Sts., 36 ft. wide, involving 3440 sq.yds. concrete, to Metzel Co., Newport, $11,136.

★**O., Akron**—Coventry Land & Impvt. Co., 1115 South Main St., let contract grading certain streets and lots in Firestone Park, 10,000 ft. long, 45-50 ft. wide, involving 50,000 cu.yd. earth excav., to Ward Bros., 1257 East 125th St., Cleveland. Noted Apr. 10.

★**O., Cleveland**—City let contracts to Roehl Bros., West 25th St. and Clark Ave., paving sections of West 90th St., involving 2900 cu.yd. excav., 52,845 sq.ft. 4 in. brick on 6 in. base and 4330 ft. 5 in. stone curbing, $32,939, West 91st St., 2600 cu.yd. excav., 54,746 sq.ft. 4 in. brick on 6 in. concrete base, and 4460 ft. 5 in. stone curbing, $33,596, Denison Ave., 65,568 sq.ft. 5 in. brick on 6 in. concrete base, and 1600 ft. 6 in. stone curbing, $51,686; to Bentley Bros., 403 Electric Bldg., Lakeside Ave., 21,600 sq. ft. 4 in. wood block on 6 in. concrete base, 940 cu.yd. excav. and 940 ft. 6 in. stone curbing, $17,747, Lakeside Ave., 870 cu.yd. excav., 21,300 sq.ft. 4 in. wood block on 6 in. concrete base and 1000 ft. 6 in. stone curbing, $18,000, East 6th St., 6300 sq.ft. 5 in. granite block on 6 in. concrete base, 10 sq.yd. 6 in. wood block and 400 sq.ft. 6 in. concrete sidewalk, $6013; to Baldwin Bros., 4500 Euclid Bldg., Flora Ave., 380 cu.yd. excav., 15,600 sq.ft. 5 in. brick block and 1200 ft. 5 in. Berea stone curbing, $7012; Enterprise Paving Co., 8436 Bway Ave., East 58th St., 520 cu.yd. excav., 9120 sq.ft. brick, 9300 sq.ft. 6 in. concrete base and 760 ft. 5 in. stone curbing, $5785, East 57th St., 575 cu.yd. excav., 9555 sq.ft. 4 in. brick on 6 in. concrete base, and 785 ft. 5 in. stone curbing, $6055, Hege Ave., 870 cu.yd. excav., 13,175 sq.ft. 4 in. brick on 6 in. concrete base, and 1045 ft. 5 in. stone curbing, $8509; Rieley Bros., 357 The Arcade, East 102nd St., 13,020 sq.ft. 5 in. brick block and 1060 ft. 5 in. stone curbing, $6277; G. B. Herring, 527 Society for Savings Bldg., East 104 Pl., 3405 sq.ft. brick block, $1039.

★**O., Perrysburg**—City let contract paving 5th St., Trinidad Lake asphaltic concrete, 2 in. thick on 6 in. concrete base and concrete curbing, to Federal Asphalt Paving Co., 316 Rentschler Bldg., Hamilton, $56,977.

★**Mich., Detroit**—Dept. Pub. Wks. will resurface roadways in Belle Isle Park, involving 50,000 sq.yd. sheet asphalt, Bermudez Asphalt wearing surface on Mexican binder. About $75,000. Work will be done by day labor. Noted Apr. 24.

★**Mich., Midland**—Village let contract paving 3100 ft. Main, Gordon, Ashman, McDonald, Rodd and Townsend Sts., 24 ft. wide, to Globe Constr. Co., Kalamazoo, $65,488. Work involves 13,792 sq.yd. bituminous concrete on old base, 11,921 sq.yd. bituminous concrete on 6 in. concrete base, 6651 lin.ft. concrete curbing and 5740 cu.yd. earth excav. Noted Apr. 3.

★**Mich., Pontiac**—Oakland Co. let contract grading, paving and building drainage structures on 7 mi. road from here to Royal Oak, thence to Rochester and 1 mi. from here to Mt. Clemens, 16 ft. wide, concrete on gravel base, to G. F. Scharl, Battle Creek, $249,800.

★**Mich., Port Huron**—City let contracts, to J. H. Baker & Sons, Port Huron, paving 10th Ave. and 10th St. from Military St. to Pine Grove Ave., 30 ft. wide, cost $110,829; Lapeer Ave. from 16th to 24th Sts., 28 ft. wide, $22,422; 22nd St. from Griswolf to Railroad Sts., 28 ft. wide, and entire length of Railroad St., 24 ft. wide, $24,454, all concrete. Noted Apr. 3.

★**Wisconsin**—State Highway Comn., Madison, let contract paving 8.8 mi. road from Birch St., Eau Claire, to Main St., Chippewa Falls, to A. Larson & Co., Eau Claire, $212,648. Work involves 17.14 acres clearing and grubbing, 4500 cu.yd. borrow, 27,090 cu.yd earth and 645 cu.yd. rock excav., and 130 ft. concrete viaduct over Minneapolis, St. Paul & Sault Ste. Marie R.R. on Birch St., Eau Claire.

★**Wis., Sheboygan**—City let contract, to Jorgensen Constr. Co., Elm St., Denmark, grading, paving, curbing and guttering with concrete 25 mi. Upper Falls Rd., Koller Village, Sheboygan Twp., grading, $0.82, paving $1.80, concrete culverts, $18, total cost, $25,000; to J. Theune, Main St., Cedar Grove, 1.9 mi. Green Bay Rd., 18 ft. wide, Cedar Grove Village, grading, $1.05, paving, $1.79, concrete culverts, $18, total cost, $14,500. Noted Apr. 24.

★**Ia., Mapleton**—City let contract paving 55 blocks, involving 75,000 yd. 2-in. Texaco asphalt on 5-in. gravel base, to Natl. Roofing Co., 627 Paxton Blk., Omaha, Neb., $289,000. Noted Apr. 17.

★**Neb., Lincoln**—City let contract paving Starr and D Sts., to Able Const. Co., Terminal Bldg., $23,310. Noted Apr. 10.

★**Neb., Omaha**—Douglas Co. let contract paving 10,000 sq.yd. Bracken, Maple, Vetula and Linden Aves., 16 ft. wide, and Main Ave., 21 ft. wide, to Bauer & Johnson Co., 201 Farnan Bldg., $18,260.

★**N. D., Jamestown**—Comrs. Stutsman Co., let contract building Federal Aid Project No. 24, to Stevens Bros., St. Paul, Minn. $82,877. Noted Apr. 24.

★**Tex., Beaumont**—Comrs. Jefferson Co. let contract building 5 mi. State Highway No. 3 and 11 mi. State Highway No. 8, to Hardin & Hardin, Houston, $500,007. Noted Mar. 6.

Streets and Roads (Continued)

Tex., Dallas—City received bids from Texas Bitulithic Co., 1101 Praetorian Bldg., paving Shelby St. from Dickason to Maple Sts., involving 6498 sq.yd. paving, 3247 lin. ft. curb and gutter and 520 cu.yd. extra excav., $21,354; Knight St. from Cedar Springs to Brown St., 4529 sq.yd. paving 2310 lin.ft. curb and gutter and 350 cu.yd. extra excav., $14,871; Throckmorton St., from Cedar Springs to Maple St., 7642 sq. yd. paving, 2195 lin.ft. curb and gutter and 1157 cu.yd. extra excav., $24,225; Reagan St. from Cedar Springs to Maple St., 7395 sq.yd. paving, 2598 lin.ft. curb and gutter and 2390 cu.yd. extra excav., $23,585. All 2 in. bitulithic wearing surface on 5 in. concrete base.

★**Utah**—State Rd. Comn., Capitol, Salt Lake City, let contracts building 11.12 mi. State Highway between Midvale and Lehi, 18 ft. wide, to J. W. Mellen, Auditorium Bldg., $329,010; 4.95 mi. State Highway from Mogna east to Murray, 18 ft. wide, to P. J. Moran, Felt Bldg., $133,478; 5.36 mi. State Highway from Murray south to Midvale, 18 ft. wide, to Campbell Bldg. Co., New House Bldg., $121,330. Noted Apr. 24.

Wash., Hoquiam—City received bids improving Eklund Ave., involving (a) clearing and grading, (b) gravel top, (c) earth fill, from J. M. Webb, (a) $275, (b) $0.61 per yd., (c) $1.10 per cu.yd.; Peek & Emerson, (a) $.62 per yd., (b) $1.00 per yd., (c) $2.50 per cu.yd.; N. P. Willis, (a) $56, (b) $1.80 per yd., (c) $1.20 per cu.yd.

★**Ont., Armitage**—Town let contract building 3 mi. bituminous macadam road from Armitage to Holland Landing, to J. Jupp, Toronto. About $30,000.

★**Ont., York**—City let contracts building 5 mi. roads, 20 ft. wide, to R. S. Fisher, 7 Bowden Ave., $32,000; A. E. Jupp, 47 Sparkhill Ave., $30,000; E. A. Dagg, 559 Sherbourne St., $20,000. Contractors all of Toronto.

BIDS DESIRED

Pennsylvania—See "Streets and Roads" under Mt. Lebanon.

Railways

PROPOSED WORK

Quebec—Canadian Pacific R.R., Windsor St. Station, Montreal, soon receives bids electrifying branch line from Three Rivers to Shawinigan Falls and Grand Mere. J. M. Fairbairn, ch. engr.

Ontario—Hydro-Electric Co., University Ave., Toronto, plans to build radial railway between Toronto and Port Perry. H. H. Couzens, genl. mgr.

Ontario—City of Guelph plans to issue bonds to extend electric railway from Hespeler north to Mount Forest.

Excavation and Dredging

PROPOSED WORK

La., Thornwell—Drainage—Thornwell D. D. No. 1 plans election May 27 to vote on $36,000 bonds to improve and enlarge drainage system. T. H. Mandell, Frank Bldg., Lake Charles, engr.

O., Springfield — Drainage — Mad River Impvt. Assn. North, Clark Co., plans to deepen and straighten 8½ mi. Mad River channel and 15 mi. tributary streams; also build levees along river from Springfield north. W. H. Sieverling, co. engr.

Minn., Benson—Ditch—Comrs. Swift Co. plan to issue $50,000 bonds to build drainage ditch. D. P. Carney, aud.

Idaho, Caldwell—Drainage—City council passed resolution requiring F. J. Lockwood, city engr., to report on plan to change Indian Creek channel and build deep drain.

Ore., Springfield—Irrigation—Benham Irrigation Co., Eugene, plans to irrigate and develop 285 acres, 2 mi. northeast of here. S. C. Atlas in charge.

Cal. Concord—Ditch—Contra Costa Co. forming drainage district to carry overflow from Pacheo Creek. Work involves building main ditch, 200 ft. wide, with banks from 6-10 ft. high and necessary laterals. C. H. Hayden, Martinez, superv.

Cal., Los Angeles—Dredging—See "Miscellaneous."

Cal., Oxnard—Ditch—Oxnard D. D. having plans prepared by Olmsted & Gillelen, engrs., 1112 Hollingsworth Bldg., Los Angeles, for open ditch and pipe drainage system. About $200,000.

Ont., Ft. William—Dredging—City soon receives bids dredging mouth of Neebing River. Bonds for $175,000 voted for project.

B. C., Chilliwack—Drainage—Provincial Government, Victoria, plans to reclaim 30,000 acres in Sumas Lake area near here, by dyking and draining to prevent Fraser River overflowing banks. A. E. Foreman, c/o Dept. Pub. Wks., Victoria, engr.

BIDS DESIRED

N. J., West New York—Excavation—See "Buildings."

Wis., Sheboygan—Excavation—Until May 14, by J. Donahue, engr., York Bldg., excavating and laying 10-12 in. tile in D. D. No. 1, Sheboygan Falls Twp., Sheboygan Co. About $35,000. Work involves 1500 cu.yd. dry earth excav.

Wis., Sheboygan—Excavation—Until May 15, by J. Donahue, engr., York Bldg., excavating and laying 6500 cu.yd. 6-10 in. tile in drainage district in Cedar Grove Twp., Sheboygan Co. Cost between $25,000 and $30,000. Work involves about 6500 cu.yd. dry earth excav.

Ia., Clinton—Dredging—Until May 5, by Bd. Supervs. Clinton Co., deepening and widening part of Old Goose Lake Drainage Ditch, 10,500 ft. long, drag-line work, involving 15,000 cu.yd. excav., $5250. J. W. Strohm, aud.; advertised in this issue.

Minn., Albert Lea—Ditch—Until May 5, by F. Davis, aud. Freeborn Co., building Co. Ditch No. 32, involving 110,331 ft. 6-34 in. tile, 30,521 cu.yd. open ditch main, 104 catch basins, 60 junction laterals, 12 rein.-con. bulkheads, 17 flood water inlets, extensions of abutments of highway bridges, retaining wall and spillway, etc. About $69,438. E. V. H. Brown, Albert Lea, engr.

S. D., Flandreau — Excavation — See "Streets and Roads."

Mo., Grant City—Drainage—Until May 16, at office of W. C. Okey, secy., Worth Co. D. D. No. 1., building main ditch and 8 laterals, involving 993,315 cu.yd. earth excav.; advertised in this issue.

Manitoba—Canal—Until May 6, by Dept. Pub. Wks., Ottawa, Ont., building 45,000 ft. canal between Little Pembina River and Pelican Lake, 11 ft. deep, 24 ft. wide, 37 ft. pile and timber bridge, 16 ft. wide, 40 ft. pile and timber dam and 50 ft. spillway. Work involves 30,000 cu.yd. earth excav. About $35,000. A Lafleur, c/o Dept. Pub. Wks., engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. J., Trenton**—Dredging—Bd. Commerce & Navigation, State House, let contract dredging section of proposed inland waterway connecting Barnegat Bay with Manasquan River, to Hill Dredging Co., Atlantic Ave. and Somerset Pl., Atlantic City, $0.22 per cu.yd. Noted Mar. 27.

★**Colo., North Sterling**—Excavation—North Sterling Irrigation Dist., Logan Co., Bank Bldg., let contract excavating canal involving 250,000 cu.yd. earth excav., to Quigley-Bonner Co., Carbon, Ind., 25c. to 37c. per cu.yd.

★**Ont., Toronto**—Excavation—Dominion Government, Ottawa, let contract excavating and demolishing existing buildings on Bay, Yonge and Front Sts., to be site of new customs warehouse, to P. Lyall Constr. Co., 120 James St., Montreal, Que. About $18,600.

Industrial Works

PROPOSED WORK

N. H., Keene—Plans are out for figures for 1 story, 62 x 106 ft. brick and concrete garage, sales and service station, etc., rein.-con. flooring, concrete foundation, for Cadillac Motor Car Co. agency. About $35,000. B. S. D. Martin, 86 Weybosset St., Providence, R. I., archt.

Mass., Boston—W. D. Young Co., 10 Washington St., plans to build 5 story rein.-con. factory and sales house, rein.-con. flooring, concrete foundation, on Babcock and Commonwealth Aves. About $225,000.

Mass., Dorchester (Boston P. O.)—Adams & Pond plan to build 2 story, 60 x 120 ft., rein.-con. factory, rein.-con. flooring, concrete foundation, on Commonwealth Ave. About $50,000.

R. I., Pawtucket—Home Bleach & Dye Wks., Branch St., plans to build 4 story, 125 x 150 ft. storehouse. About $60,000.

Conn., Middletown—Rockfall Woolen Co., Maplewood St., plans to build brick addition to plant. About $50,000.

Conn., New Haven—J. Weinstein, archt., 6 Church St., soon receives bids building 2-story, 80 x 100 ft. brick and concrete bakery, rein.-con. flooring, concrete foundation, on Broad and Commerce Sts. About $50,000. Owner's name withheld.

N. Y., Brooklyn—Cushman Sons Inc., 49 Manhattan St., New York City, having plans prepared by L. S. Beardsley, archt., 40 West 32nd St., New York City, building 3 story, 140 x 200 ft. brick and steel bakery, rein.-con. flooring, concrete foundation, on Atlantic and Troy Aves., here. About $100,000.

N. Y., Brooklyn—Shampan & Shampan, archts, 50 Court St., receive bids about May 19, building 3 story, 60 x 100 ft., brick and steel garage, rein.-con. flooring, brick foundation, on Vanderbilt and DeKalb Aves., for W. Bauer, c/o archts. About $50,000. Noted Apr. 10.

N. Y., Buffalo—W. S. Bricker Co., archts., Mutual Life Bldg., soon receives bids building 2 story, 22 x 80 ft. steel and concrete, dairy product plant, concrete foundation, on Mesner St., for Beale & Son, 7375 Park Ave. About $25,000.

N. Y., Fredonia—Red Wing Grape Juice Co., soon lets contract building 4 story, 48 x 80 ft. rein.-con. and brick warehouse and factory, rein.-con. flooring, concrete foundation. About $40,000. W. H. Powers, c/o owner, archt.

N. Y., Glens Falls—Arrow Grip Mfg. Co. plans to build 2 story brick factory adjoining Delaware & Hudson R.R. About $150,000.

N. Y., New York—C. H. Allen, 138 William St., soon receives bids building 7-story brick and steel storage house, rein.-con. flooring, concrete foundation, at 119 Fulton St. and 56 Ann St. About $75,000. Montgomery & Riggs, 105 West 40th St., archts.

N. Y., New York—Industrial School, 418 West 41st St., having plans revised by G. M. McCabe, archt., 96 5th Ave., for 3 story, 50 x 99 ft. brick and steel garage, rein.-con. flooring, concrete foundation, at 418-420 West 41st St. About $55,000. Noted Apr. 3.

N. Y., New York—Terminal Warehouse Co., 17 South William St., having plans prepared by J. W. O'Connor, archt., 3 West 29th St., building two 9-story brick and steel warehouses, rein.-con. flooring, concrete foundation, at 29-31 South William St. About $100,000. J. H. Lynch, pres.

N. Y., Rochester—Whit-Field Map Co., Inc. plans to build factory. About $60,000. Address I. A. Whitman, Rochester.

N. J., Asbury Park—Victory Tire & Rubber Co., 385 East 149th St., New York City, plans to build 2 story, 75 x 165 ft., concrete and steel factory on Railroad Ave. here. About $125,000. E. A. Arend, Kinmouth Bldg., archt.

Pa., Nanticoke—Duplan Silk Co., 135 Madison Ave., New York City, soon lets contract building 1 and 2 story, 100 x 550 ft., brick and steel mill construction silk mill, rein.-con. flooring, concrete foundation, here. Ballenger & Perrott, 17th and Arch Sts., Phila., archts.

Ga., Columbus—Eagle & Phoenix Mills, Front St., plans to build brick power house and alter present plant. Lockwood, Greene & Co., Healy Bldg., Atlanta, engrs.

Ala., Cordova—Indianhead Mills plans to build 3 story, rein.-con. cotton mill. About $1,500,000. Lockwood, Greene & Co., Healy Bldg., Atlanta, Ga., engrs.

Tenn., Jackson—Bemis Bag Co., 601 South 4th St., St. Louis, Mo., plans to build two 4 story, 35 x 40 ft. rein.-con. locker towers at plant here. About $50,000. Stephen & Pearson, 820 Central Natl. Bank Bldg., St. Louis, Mo., archts.

O., Cleveland—Christain, Schwarzenberg & Gaede, engrs., 1900 Euclid Bldg., soon receive bids building 1 story, 60 x 131 ft. concrete, steel and brick addition for Fdry. Co., 3510 East 71st St. About $30,000.

O., Cleveland—Christain, Schwarzenberg & Gaede, engrs., 1900 Euclid Bldg., soon receive bids building 4 story, 90 x 100 ft., concrete, steel and brick factory for Grabler Mfg. Co., 6565 Bway Ave. About $100,000.

O., Cleveland—Cleveland Automobile Co., East 131st St. and St. Clair Ave., plans to build 4 story, rein.-con., steel and brick boiler house on London Rd. About $100,000. E. McGeorge, 1900 Euclid Ave., archt.

O., Cleveland—E. A. Curtiss, archt., 416 Guardian Bldg., soon receives bids for 2 story, 60 x 125 ft., rein.-con., steel and brick factory, at 9006-14 Woodland Ave., for J. H. Fisher, 2167 East 71st St. About $50,000.

O., Cleveland—Land & Home Co., Williamson Bldg., plans to build 5 story, concrete, steel and brick factory on East 30th St. and Perkins Ave.

O., Cleveland—Maurice Co., 410 Lakeside Ave., having plans prepared by Christain, Schwarzenberg & Gaede, engrs., 1900 Euclid Bldg., for 4 story, rein.-con., steel and brick factory on East 27th St. and Woodland Ave. About $50,000.

O., Cleveland—Natl. Lamp Assn., Nela Park, plans to build 6 story, rein.-con., steel and brick plant. About $250,000.

Industrial Works (Continued)

O., Cleveland—H. J. Walker, 12805 Taft Ave., having plans prepared by E. McGeorge, archt., 1900 Euclid Bldg., for 4 story, rein.-con., steel and brick factory, rein.-con. flooring, on East 131st St. and Taft Ave. About $75,000.

O., Dayton—G. W. Shroyer & Co., Main and 2nd Sts., plans to build 1 story, 50 x 200 ft., concrete and brick garage and service station, concrete foundation, on North Main St. Schenck & Williams, Mutual Home Bldg., archts.

O., Dayton—W. C. Wampler, 132-134 North St. Clair St., plans to build 4 story, 68 x 150 ft., rein.-con. and brick garage and salesroom, rein.-con. flooring, concrete foundation, on Main and Bruen Sts. About $75,000.

O., Dover—Tuscora Rubber Co., c/o W. C. Owen Eng. Co., archts., 1900 Euclid Bldg., Cleveland, having plans prepared for 3 story, concrete, steel and brick factory, here. About $100,000.

Mich., Pontiac—Hess-Pontiac Spring Co. plans to build 2 story brick and rein.-con. forge shop, concrete foundation. About $200,000. B. A. Litchfield, genl. mgr.

Ill., Chicago—Hydrox Co., 3543 Normal Ave., soon lets contract building 3 story, rein.-con. and brick ice factory, rein.-con. flooring, concrete foundation, on 4000 sq.ft. site, on Lake Park Ave. and 24th St. Schmidt, Garden & Martin, 104 South Michigan Ave., archts.

Ill., Chicago—Independent Packing Co., Halsted and 41st Sts., soon lets contract building 5-story, 60 x 65 ft. rein.-con slaughterhouse, rein.-con. flooring, concrete foundation. About $65,000. H. C. Christensen, 7258 Union Ave., archt.

Wis., Milwaukee—Jaeger Baking Co., Central Ave., soon lets contract building 3 story, 100 x 100 ft., brick and steel bakery, rein.-con. flooring, concrete foundation. About $100,000. L. S. Beardsley, 40 West 32nd St., New York City, engr.

Minn., Altura—Company being formed to build electric light and power plant. About $300,000. Address, Power Eng. Co., 510 Corn Exch., Minneapolis, engrs.

Minn., Minneapolis—Northwestern Catalogue Co., 800 Phoenix Bldg., soon lets contract building 4 story, 100 x 100 ft., rein.-con. and brick warehouse, rein.-con. flooring. About $100,000. Long, Lamereaux, Long & Phorshang, 1028 Andrus Bldg., archts.

Minn., St. Paul—J. H. Allen & Co., 6th St. and Bway., having plans prepared for wholesale grocery building. About $1,000,000.

Okla., Pauls Valley—M. M. Eagan & Sons plan to build molasses and feed plant. About $75,000.

Okla., Tishoningo—City voted $50,000 bonds to build electric light plant.

Idaho, Pocatello—Northwestern Auto Supply Co., Billings, plans to build 3 story plant here. About $32,000.

Wash., Hoquiam—J. Johnson and associates, Puget Sound, plan to build steel rolling mills at harbor here. First unit to cost $250,000.

Ore., Portland—D. Dahm and T. Hendricksen having plans prepared by Sutten & Whitney, archts., Lewis Bldg., building 4 story 75 x 112 ft. concrete plant, on 10th and Burnside Sts.

Ore., Roseburg—Umpqua Growers' Assn. plans to build new fruit and berry cannery. About $50,000. J. Busenbark, pres.

Cal., Bakersfield—J. M. Jameson soon lets contract building 2 story, 50 x 122 ft., brick garage, concrete foundation, on 22nd and Chester Aves. T. B. Wiseman, Brower Bldg., archts. Kitchen & Amell, agents for Overland Automobile, Bakersfield, lessee.

Cal., Beverly Hills—See "Miscellaneous."

Cal., Calexico—City having plans prepared by Olmsted & Gillelen, engrs., 1112 Hollingsworth Bldg., Los Angeles, for gas and electric light plant here. About $325,000. P. B. Steintorff, clk.

Cal., Fresno—Sperry Flour Co., Hamilton and J Sts., plans to build flour mill. About $400,000. J. L. Eischelberger, mgr.

Cal., Los Angeles—L. A. Times, 1st St. and Bway., having plans prepared by Krempel & Erkes, archts., 415 Henne Bldg., building 4 story, 25 x 100 ft., rein.-con. and brick newspaper plant, concrete foundation.

Cal., San Francisco—Sherman Estate, c/o J. L. Stewart, archts., C. Spreckles Bldg., having plans prepared for 5 story, 100 x 160 ft., rein.-con. warehouse, on 2nd and Brannan Sts.

Cal., Santa Paula—Limoneira Co. having plans prepared by Allison & Allison, archts., 1405 Hibernian Bldg., Los Angeles, building 1 and 2 story hollow tile and concrete packing plant, concrete foundation. About $150,000.

N. S., Clarks Harbor—Town having plans prepared for electric light plant. About $60,000.

N. B., Boiestown—B. J. Thibedeau, plans to build plant. About $25,000.

Que., Lac Au Saumon—Salmon Lake Drive and Boom Assn. plans to build large wood and pulp plant.

Que., Sherbrooke—J. A. Beaudoin, East Angus, soon lets contract building warehouse for Eastern Twp. Provision Co., Sherbrooke. About $50,000. L. N. Audet, 37 King St., archt.

Que., Three Rivers—Page Wire Fence Co., Three Rivers, plans to build 99 x 290-ft. concrete and steel factory. About $50,000.

Ont., East London—(London P. O.)—Republic Motor Sales Co., 5101 Euclid Ave., Cleveland, O., purchased site here and plans to build factory. About $500,000.

Ont., Galt—McCormick & McCormick, Galt, plans to build steel and brick mill. About $72,000. W. J. Westaway, 72 James St. N., Hamilton, archt.

Ont., Hamilton—M. Michnik, 172 Cannon St., plans to build factory. About $25,000.

Ont., Hamilton—Zimmerman Reliance Knitting Co. plans to build factory. About $50,000.

Ont., Kitchener—Four Wheel Drive Auto Co., Kitchener, receives bids in about 2 weeks for brick and rein.-con. factory. W. C. Cowan, 430 King St., E., archt

Ont., London—A. Deviney, St. Marys, plans to build flax mills here. About $50,000.

Ont., Sarnia—W. D. Ferguson and J. McCutcheon, purchased building at 313 Front St. and plan to remodel same for cold storage plant. About $25,000.

Ont., Stratford—R. M. Ballantyne Knitting Co., Ballantyne Ave., having plans prepared by J. Russell, archt., Downie St., for 3-story brick factory. About $35,000.

Ont., Toronto—W. Harris & Co. soon receives bids building 4-story, 66 x 145 ft. rein.-con. and brick glue factory on Keating St. A. Chapman, Harbor Bldg., archt.

Ont., Toronto—Neptune Meter Co., 565 Washington Bldg., Chicago, Ill., plans to build plant here. About $55,000.

Ont., Welland—City plans to build ice plant. About $35,000.

Ont., Windsor—Champion Spark Plug Co., 14-16 Sandwich St., W., plans to build factory. About $95,000.

Ont., Windsor—City plans to establish dairy. About $40,000.

Ont., Windsor—B. H. Marsh, 132 Windsor Ave., plans to build steel and brick factory, concrete foundation. About $40,000. J. C. Pennington, La Belle Bldg., archt. Noted Apr. 24.

Ont., Windsor—Universal Car Agency, Windsor, plans to build concrete garage. About $50,000.

Alta., Calgary—Alberta Flour Mills, Ltd., soon receive bids building mills and elevators in southeast section of city. Cost to exceed $3,000,000.

B. C., Anyox—Granby Consolidated Ore Co. plans to build plant. About $50,000.

B. C., Vancouver—Coca Cola Co., Bannatyne and Dagman Sts., Winnipeg, Man., plans to build 3 story, rein.-con. factory, rein.-con. flooring, concrete foundatin, on Richard and Smythe Sts., here. About $1,000,000.

BIDS DESIRED

O., Cleveland—W. J. Carter, archt., 723 Illuminating Bldg., receiving bids for 4-story, 50 x 100 ft. rein.con., steel and brick, factory at 2978 Woodhill Rd., for Van Dorn Electric Co., 2978 Woodhill Rd. About $75,000. Noted Apr. 17.

Ia., Ottumwa—Henshein & McLaren, engrs., 37 West Van Buren St., Chicago, receiving bids building 2 story, 65 x 125 ft., rein.-con. and brick creamery, concrete foundation for Yorkshire Creamery Co. About $40,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. H., Keene**—G. Fairfield will build 2 story, 60 x 110 ft. brick and mill construction garage and service station, rein.-con. flooring, concrete foundation. About $25,000. Work will be done by day labor.

★**Conn., Bridgeport**—Post Publishing Co., 49 Cannon St., let contract building 2-story, 47 x 68 ft. brick and concrete printing plant, rein.-con. flooring, concrete foundation, on Middle St., to M. Tredennick Co., 188 Main St. About $60,000. Noted Apr. 17.

★**Conn., South Manchester**—Cheney Bros. let contract building 2 story, 60 x 90 ft. rein.-con. factory, rein.-con. flooring, concrete foundation, to Aberthaw Constr. Co., School St., Boston, cost plus percentage basis.

★**N. Y., Brooklyn**—J. Bene & Sons, 541 Dean St., let contract building 2 story, 100 x 100 ft., brick and steel factory, rein.-con. flooring, concrete foundation, on Clinton Ave. and Fulton St., to W. Kennedy Constr. Co., 215 Montague St. Noted Apr. 3.

★**N. Y., Brooklyn**—Cairns Holding Co., Inc., let contract building 9 story, 75 x 119 ft. brick and rein.-con. factory, concrete foundation, on Atlantic and Classon Aves., to Gillies-Campbell, 101 Park Ave., New York City.

★**N. Y., Brooklyn**—I. Kalt, 44 Court St., will build 1 story, 100 x 154 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Bay 19th St. About $35,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Lasky Motor Car Corp., 17 Graham Ave., will build 2 story, 100 x 100 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Montrose Ave. and Leonard St. About $75,000. Work will be done by day labor under supervision of Shampan & Shampan, archts., 50 Court St. Noted Apr. 24.

★**N. Y., Brooklyn**—J. Liederman, c/o Shampan & Shampan, archts., 50 Court St., will build 2 story, 60 x 100 ft., brick and steel garage, rein.-con. flooring, brick foundation, at 305 Vernon Ave. About $35,000. Work will be done by day labor.

★**N. Y., Buffalo**—Mentholatum Co. 146 Seneca St., let contract building 4-story, 80 x 100 ft. rein.-con. factory, rein.-con. flooring, concrete foundation, on Seneca St., to J. W. Cowper Co., Fidelity Bldg. About $225,000. Noted Apr. 10.

★**N. Y., Long Island City**—L. Gold, 44 Court St., Brooklyn, will build 2 story, 75 x 85 ft., brick and concrete factory, rein.-con. flooring, concrete foundation, on North Jane St. About $45,000. Work will be done by day labor.

★**N. Y., Long Island City**—L. Gold, 44 Court St., Brooklyn, will build 2 story, 90 x 130 ft., rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on 6th St. and Washington Ave. About $75,000. Work will be done by day labor.

★**N. Y., New York**—Commonwealth Ice Co., 7 East 42nd St., let contract building 2- and 3-story, 101 x 169 ft. brick and steel ice plant, rein.-con. flooring, concrete foundation, on 67th St. and West End Ave., to J. H. Taylor Constr. Co., 110 West 40th St. About $70,000.

★**N. Y., Niagara Falls**—Defiance Paper Co., Walnut and 3rd Sts., let contract building 1 story, 46 x 103 ft. rein.-con. and brick mill, concrete foundation, on Walnut St., to J. W. Cowper Co., Fidelity Bldg., Buffalo. About $25,000.

★**N. Y., Rochester**—Keenan & Keenan, Powers Bldg., received contract building 4 story, 100 x 120 ft. rein.-con. and brick garage, at 39 South Union St. About $100,000. Owner's name withheld.

★**N. Y., Westfield**—Armour & Co., 208 South La Salle St., Chicago, let contract building 3 story, 130 x 200 ft. brick and stone factory and 54 x 54 ft. power house, to Black Constr. Co., 20 West Jackson Blvd., Chicago. About $210,000.

S. C., Charleston—Sottile Cadillac Co., 261 Meeting St., received bids Apr. 5, building 2 story, 100 x 120 ft., rein.-con. garage, on Meeting St., from Palmer Spivey Constr. Co., Campbell Bldg., Augusta, Ga., $50,350; McDavitt Fleming Co., Chattanooga, Tenn., $52,102; South Ferro Concrete Co., Georgia Bldg., Atlanta, Ga., $53,733. Noted Mar. 6.

★**Tenn., Memphis**—A. S Barboro & Co., 99 South Main St., let contract tearing down old building and constructing 2-story, 100 x 150 ft. brick and concrete storehouse on Wagner and Pontotoc Sts., to J. A. Alexander Constr. Co., 388 North Front St., $135,000.

★**O., Akron**—Mohawk Rubber Co., 2nd Ave., let contract constructing 1-story, 60 x 200 ft. brick and steel addition to present 2-story building to W. A. Franklin Sons Co., 247 Cuyahoga St. About $50,000.

★**O., Cincinnati**—Dolly Varden Chocolate Co., 411 Laurel St., let contract building 6 story, 53 x 100 ft. rein.-con. addition to factory, to Ferro Concrete Constr. Co., Richmond and Harriet Sts. About $80,000.

Industrial Works (Continued)

★**O., Cleveland**—Cream Cone Machine Co., 1836 Euclid Ave., let contract building 3 story, 60 x 100 ft. concrete, steel and brick factory, on East 59th St. and Hough Ave., to A. A. Lane Constr. Co., 1836 Euclid Ave. About $100,000.

★**O., Newark**—J. H. Carroll Co. let contract building 3 story, 71 x 170 ft., rein.-con., steel and brick factory, concrete foundation, to O. J. Hawkins & Son, Newark, $94,000.

★**Ill., Belleville**—Western Brewing Co. will build addition to plant. About $50,000. Work will be done by day labor.

★**Minn., St. Paul**—W. H. Schmelzel Co., Inc., 117 University Ave., W., let contract building 1-story, 130 x 390 ft. rein.-con. and brick tractor plant on Rice and Atwater Sts. to L. W. Baumeister, 1204 Pioneer Bldg., About $75,000.

★**Mo., Joplin**—Hulburt Undertaking Co., West 4th and Virginia Sts., let contract building 2 story, 60 x 110 ft. garage and 30 x 60 ft. chapel, brick, concrete foundation, to R. L. Hoffman, Royal Heights. About $35,000.

★**Mo., St. Louis**—Northwestern Consolidated Milling Co., 438 Theresa St., let contract building 3 story, 50 x 130 ft., concrete, steel and brick warehouse, rock foundation, at 438 Theresa St., to T. H. Ratz, 4333 Taft Ave., $60,000.

★**Ont., Toronto**—Dominion Government, Ottawa, let contract building 248 x 560 ft., steel and stone customs examining warehouse on Bay, Yonge and Front Sts., here, to P. Lyall Constr. Co., 120 James St., Montreal, Que. About $2,000,000.

★**B. C., Vancouver**—Morrison Steel & Wire Co., Industrial Island, let contract building 1-story factory to H. B. Leck, 1767 Tolmie St. About $28,500. Noted Mar. 27.

Buildings

PROPOSED WORK

Mass., Athol—Hall—Town plans to build hall. About $150,000. D. P. Kimball, clk.

Mass., Boston—Hospital—City had plans prepared for 3 story brick hospital on Charles St. About $150,000. H. G. Desmond, 15 Beacon St., archt.

Mass., Springfield—Theatre—A. Goodside, Fidelity Bldg., Portland, Me., having plans prepared by G. H. Desmond, archt., 15 Beacon St., Boston, building 5 story, 60 x 154 ft., on Main and Pynchon Sts., here. About $200,000.

R. I., Pawtucket—Synagogue and School—Congregation Chaive-Sholam, High St., plans to build synagogue and school. About $60,000.

R. I., Thornton—School—Johnston Twp. appropriated $50,000 to rebuild school on School St., here, recently destroyed by fire. S. K. Luther, Thornton, clk.

Conn., Hartford—Hotels — H. G. Bond, 320 Asylum St., plans to build 2-story brick, steel and concrete addition to Hotel Sherman, rein.-con. flooring, concrete foundation, on Allyn and High Sts., cost $60,000; also 7 story building on Allyn St., to be known as Hotel Bondmore. Whiton & McMahon, 36 Pearl St., archts.

Conn., New Britain — Home — Erwin Home, Bassett and Ellis Sts., plans to build home. Late D. Miller donated $50,000 for project.

Conn., New Britain — Institute — New Britain Institute, High and West Main Sts., plans to build institute. Late D. Miller donated $50,000 for project.

Conn., New Haven—Business—Besse, Ritchey & Co., 784 Chapel St., plans to construct new front to present building and 5 story addition in rear. About $50,000. Brown & Von Beren, 185 Church St., archts.

Conn., New Haven—Business—Plans are out for figures for 2 story, 70 x 100 ft. brick, rein.-con. flooring, concrete foundation, on Bway. and Howe St., for Beecher & Bennett Co., 280 Elm St. About $60,000. C. S. Palmer, 191 Church St., archt. Noted Mar. 6.

Conn., New Haven—Hospital — Jewish Home for Aged, 169 Davenport Ave., plans to build hospital. About $200,000.

Conn., Norwich—Hospital—Norwich Hospital for Insane having plans prepared by Cudworth & Thompson, archts., Thayer Bldg., for psychopathic and tuberculosis buildings, on hospital grounds. About $200,000.

Conn., Torrington—Dormitory—Charlotte Hungerford Memorial Hospital, Litchfield Rd., having plans prepared by E. Greene, archt., 5 Beekman St., New York City, for dormitory on hospital grounds. About $50,000.

Conn., Waterbury—School—Bd. Educ. plans to build brick, concrete and steel addition to Croft St. school, rein.-con. flooring, concrete foundation. About $125,000 L. A. Walsh, 51 Leavenworth St., archt.

N. Y., Albany—Theatre—M. Spiegel, Strand Theater Bldg., New York City, soon lets contract building 2 story, 75 x 175 ft. brick and steel, brick foundation, on Monroe St., here. About $150,000. T. Lamb, 644 8th Ave., New York City, archt.

N. Y., Brooklyn—Home and Hospital—Brooklyn Hebrew Home and Hospital for Aged, Howard and Dumont Aves., plans to build 4 story, 90 x 100 ft. brick and steel addition, concrete foundation. About $100,000. L. A. Abramson, 220 5th Ave., New York City, archt.

N. Y., Brooklyn—Theatre—Washington Amusement Co., c/o Zipkes, Wolff & Kudroff, archts., 25 West 42nd St., New York City, having plans prepared for 1½ story, 100 x 137 ft. brick and steel, brick foundation, on Washington Ave. and Prospect Pl. About $100,000.

N. Y., Buffalo—Bank—Peoples Bank, 224 Main St., having plans prepared for bank on Main and Seneca Sts., extending to Pearl St. About $1,000,000.

N. Y., Central Islip—Hospital, etc.—State Hospital Comn., Capitol, Albany, soon receive bids building 3 story, 30 x 300 ft. addition to building for acute patients, with 2 wings 30 x 60 ft. and one 40 x 60 ft. brick and rein.-con., concrete foundation. About $150,000. Noted Jan. 30.

N. Y., Greenburg—School—Bd. Educ. having plans prepared by Tooker & Marsh, archts., 101 Park Ave., New York City, building 2 story brick and steel, brick foundation. About $90,000.

N. Y., New York—Office—60 Wall St. Corp. soon lets contract building 5 story brick and steel addition. About $100,000. Clinton & Russell, 32 Liberty St., archts. Noted Mar. 27.

N. Y., New York—Office—Clinton & Russell, archts., 32 Liberty St., plan to build 30 story, 100 x 100 ft. brick and steel, brick foundation, at 93 Maiden Lane to run through to 205-207 Pearl St. and 4-6 Gold St. Owners name withheld.

N. Y., New York—Office—Crescent Realty Co., 26 East 23rd St., soon lets contract building 6-story, 50 x 100 ft. brick and steel, brick foundation, at 210-212 West 42nd St. About $60,000. A. Brociner, 11 West 40th St., archt. and engr.

N. Y., New York—Store and Office—Wendell Estate, 175 Bway., having plans prepared by C. E. Birge, archt., 29 West 34th St., altering 6 story brick and steel building at 181 Bway. F. G. Shattuck, 62 West 23rd St., lessee.

N. Y., Ossining—Hall, etc.—State Hospital Comn., Capitol, Albany, soon receives bids building 4 story, 50 x 200 ft. clinic building No. 8; 4 story, 40 x 260 ft. detention building and outside cells No. 5; 1 story, 50 x 200 ft. mess hall and kitchen No. 4, with 2 wings, 50 x 80 ft.; 1 story, 30 x 30 ft. pumphouse and 30 x 90 ft. reservoir; and 3 story, 50 x 90 ft. outside cell No. 7, all rein.-con. and brick construction.

N. Y., Rochester — Church — Episcopal Church of the Ascension having plans prepared for church. About $100,000. W. C. Compton, rector.

N. Y., Syracuse—Academy—Bd. Educ. and City Eng. Dept. having plans prepared by M. L. King, archt., Snow Bldg., building 3 story brick, to be known as Onondago Academy. About $250,000.

N. J., Harrison—School—Town plans to build school. About $325,000.

N. J., Riverside—Bank—Riverside Trust Co., plans to build 1 story, 60 x 67 ft., limestone, here. About $75,000. W. A. Klemann, 1st Natl. Bank Bldg., Trenton, archt.

Pa., Phila.—Theatre—W. Freihofer, 20th St. and Indiana Ave., plans to build 2 story, 72 x 190 ft., concrete and steel on Frankford Ave. near Oxford Lane. About $125,000. H. C. Hogens, 1312 Walnut St., archt.

Pa., Phila.—Theatre—H. C. Hogens, archt., 1312 Walnut St., preparing plans for 2 story, 100 x 200 ft., steel and concrete on Germantown and Lehigh Aves. About $200,000. Owner's named withheld.

Md., Baltimore—Loyloa College received bequest of $300,000 to construct new buildings on University Parkway. Address J. A. McEneany, pres.

D. C., Wash.—Memorial—George Washington Memorial Assn., Scott Circle, having plans prepared by Tracy & Swartout, archts., 18 West 34th St., New York City, building 4 story, 200 x 220 ft., steel and brick, concrete foundation. About $1,000,000.

Fla., Green Grove Springs—School—Bd. Educ. Clay Co., plans election soon to vote on $50,000 bonds to build school here.

Fla., Jacksonville—Bank—Atlantic Natl. Bank soon lets contract building 1 story 50 x 100 ft., brick and steel, brick foundation. About $100,000. Mowbray & Uffinger, 56 Liberty St., New York City, engrs. Noted Mar. 20.

Fla., Pensacola—High School—Escambia Co. School Bd. plans to issue $100,000 bonds to build school and $25,000 bonds to improve rural schools.

O., Akron—Bank and Office—State Savings & Trust Bldg. Co., Main and Market Sts., having plans prepared by Harpster & Bliss, archts., Hamilton Bldg., for 16 story, 52 x 72 ft., steel and brick, rein.-con. flooring, on Main and Market Sts.

O., Akron—Welfare—Walker & Weeks, archts., 1900 Euclid Bldg., Cleveland, soon receive bids building 4 story, concrete, steel and brick, on East Market St., for Goodyear Tire & Rubber Co., Market St. About $100,000.

O., Cleveland—Bath House—City soon lets contract building 2 story, 70 x 76 ft., concrete, steel and brick, at 2526 Central Ave. About $50,000. F. H. Betz, 604 City Hall, archt.

O., Cleveland — Club House — Knights Columbus, (Forest City Council), 1770 West 25th St., plans to build 5 story, concrete, steel and brick, on West 65th St. and Detroit Ave. About $150,000.

O., Cleveland—Commercial—Schoeder & Glickman, 416 Guardian Bldg., having plans prepared by E. A. Curtiss, archt., 416 Guardian Bldg., for 3 and 4 story concrete, steel and brick, on East 149th St. and Lake Shore Blvd. About $90,000.

O., Cleveland—Office—Paul Bros., Citizens Bldg., having plans prepared by G. A. Grieble, archt., Sloane Bldg., for 11 story, rein.-con., steel and brick, on East 6th St. and Vincent Ave. About $750,000.

O., Cleveland — Office — United Cigar Stores Co., 44 West 18th St., New York City, plans to build 6 story, rein.-con., steel and brick, on East 6th St. and Euclid Ave. About $75,000.

O., Cleveland—Theatre and Store—E. Huberty, archt., 8017 Whitehorn Ave., soon receives bids building 2 story, concrete, steel and brick, on Fulton Rd. and Bush Ave., for Amer. Amusement Co., 4108 Bway. Ave. About $80,000.

O., Columbus—Bank and Office—F. L. Packard, archt., Hayden Bldg., revising plans and soon receives bids building 6 story, 26 x 95 ft., rein.-con. and brick, concrete foundation, on High and Main Sts., for Franklin Loan & Savings Co., Main and High Sts. About $110,000. Former bids rejected. Noted Mar. 13.

O., Columbus—Institution—State Legislature passed bill providing for appropriation of $650,000 to purchase site and build institution for Care of Feeble-minded. Work will be done under supervision of Ohio Bd. of Administration.

O., Columbus—Sales—Carroll-Thompson Co., East Long St., plans to build 4 story, 75 x 100 ft., on East Long St. About $150,000. E. C. Matthews, 79 Brighton St., archt.

O., Dayton—Bank—West Dayton Commercial & Savings Bank, West 3rd St., plans to build 3 story, 85 x 120 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on 3rd St. and Western Ave.

O., Springfield—Y. M. C. A., North Fountain Ave., plans to construct building or High and Center Sts. About $150,000.

O., Steubenville—Hotel—W. R. Johnson and associates plan to build 9 story, steel, brick, limestone and granite, on 4th and Washington Sts. About $900,000. J. S. Hershey, Altoona, Pa., archt.

O., Warren—Hotel—J. Warner Hotel Co., plans to build 8 story, rein.-con., steel and brick. About $300,000.

Mich., Detroit—Bank and Office—Detroit Savings Bank, Penobscot Bldg., having plans prepared by A. Kahn, archt., Marquette Bldg., building 2 story steel and granite, on Griswold and State Sts. About $300,000.

Buildings (Continued)

Mich., Detroit—Music Hall and Stores—Dirs. Detroit Symphony Orchestra, c/o C. H. Crane, archt., 2325 Dime Bank Bldg., having plans prepared building 2-story, 100 x 174 ft. brick, steel and rein.-con., rein.-con. flooring, concrete foundation, on Woodward Ave. and Parsons St. About $300,000. W. H. Murphy, chn.

Mich., Detroit — School — St. Ambrose congregation, Wayburn Ave., soon lets contract building 2 story, 75 x 100 ft. brick and rein.-con., rein.-con. flooring, concrete foundation, on Wayburn Ave. and Alter Rd. About $100,000. Donaldson & Meier, 1314 Penobscot Bldg., archts.

Mich., Detroit—Synagogue—Alfred St. Jewish congregation having plans prepared by R. Finn., archt., 1144 David Whitney Bldg., for 2 story, 55 x 76 ft. brick and steel, concrete foundation, on Alfred St. About $50,000.

Mich., Detroit—Theatre and Store—H. Kramer & Sons, 1697 Gratiot Ave., having plans prepared by C. H. Crane and E. G. Kiehler, archts., 2325 Dime Bank Bldg., for 2 story, 80 x 230 ft. brick, steel and rein.-con., rein.-con. flooring, concrete foundation, on Michigan Ave. between Bushey and Greusel Aves. About $250,000.

Ill., Chicago — Church — Fourteenth Church of Christ Scientist, c/o N. M. Dunning, archt., 310 South Wabash Ave., soon lets contract building 1 story, 105 x 140 ft. stone and terra cotta, on Paulina and Sunnyside Aves. About $175,000. Noted Jan. 2.

Ill., Chicago—Church—Sixteenth Church of Christ, Scientist, 1700 Lunt Ave., had plans prepared by H. L. Cheney, archt., 208 South La Salle St., building 1 story, 100 x 160 ft. brick and timber, concrete foundation, on Ashland and Kenilworth Aves. About $200,000.

Ill., Danville—High School—City plans election to vote on $500,000 to $1,000,000 bonds to build new high school.

Ill., Forest Park—Theatre and Store—O. P. Speyer, archt., 6507 Greenview Ave., Chicago, receives bids about Aug. 1, building 3 story, 75 x 125 ft., brick, steel and concrete, concrete foundation, on Madison and Harlem Aves., for Carelin & Manos, c/o archt. About $150,000.

Ill., Moline—Church—Sacred Heart congregation, 419 East 11th St., plans to build church, on 17th Ave. and 13th St. About $75,000.

Ill., Moline—School—Bd. Educ. plans to build 1 story school. About $70,000.

Ill., South Chicago (Chicago P. O.)—Church—Worthmann & Steinbach, archts., 155 North Clark St., receives bids about May 10, building 1 story, 48 x 105 ft. brick and steel, concrete foundation, on East 103rd St. and Ave. H, for Bethlehem Lutheran congregation, c/o archt. About $75,000.

Ia., Council Bluffs—Bd. Educ. having plans prepared by Proudfoot, Bird & Rawson, archts., Hubbell Bldg., Des Moines, for school here. About $240,000.

Minn., Balaton—School—City plans election soon to vote on $60,000 bonds to build school. E. H. Feff, clk. bd. educ.

Minn., Grasston — School — City soon receives bids building 2 story, 36 x 76 ft. About $50,000. Foss & Foss, St. Cloud, engrs.

Minn., Holdingford—Grade School—City soon receives bids building 2 story, 38 x 76 ft., concrete and brick, brick foundation. About $50,000. L. W. Schaefer, St. Cloud, archt.

Minn., Minneapolis—Auditorium and Gymnasium—Ascension Catholic congregation soon receives bids building 3-story, 75 x 100 ft., rein.-con. and brick on 18th and Bryant Aves., N. About $125,000. Bertrand & Chamberlain, 616 North West Bank Bldg., archts.

Minn., Moorhead — High School—City plans to issue $200,000 bonds to build high school. R. G. Price, clk.

Minn., Waubun—School—Village voted $60,000 bonds to build school. G. A. Lee, village clk. Noted Jan. 30.

N. D., Dickinson—Sanitarium—Dickinson Sanitarium Co. having plans prepared by N. Ressler, archt., Mandan, for 3 story, 42 x 150 ft., on Marquette Blvd.

N. D., Great Bend—Church—Lutheran Congregational Church plans to build 45 x 105 ft. brick and stone. About $50,000. Long, Lamoreaux & Long, 1028 Andrus Bldg., Minneapolis, archts.

Mont., Anaconda—School—City voted $50,000 bonds to enlarge Prescott and Bryan Schools.

Mont., Great Falls—Store—Paris Dry Goods Co., 306 Central Ave., received bids about July 1, building 10 story, 100 x 150 ft., on Central Ave. About $500,000. G. H. Shanley, 511 1st Natl. Bank Bldg., archt.

Mo., St. Joseph—City Hall—City election May 27, to vote on $450,000 bonds to build city hall.

Mo., St. Joseph—Hospital—City election May 27, to vote on $100,000 bonds to build hospital for contagious diseases.

Tex., Austin—Hotel—Hogg-Wroe Syndicate had plans prepared for 12 story, 60 x 160 ft. on Congress Ave. between 10th and 11th Sts. About $360,000. L. J. Schneider, c/o Amer. Natl. Bank, Littlefield Bldg., secy.-treas.

Tex., El Paso—Church—Central Baptist congregation plans to build 1 story, brick and steel on Virginia and Montana Sts. About $100,000. O. H. Thorman, 725 1st Natl. Bank Bldg., archt.

Okla., Amorita—School—City voted $50,000 bonds to build school.

Idaho, Idaho Falls—High School—City voted $85,000 bonds to build high school.

Idaho, Nampa—Hall—City plans election soon to vote on $60,000 bonds to build new city hall.

Ariz., Chandler—High School—School Trustees having plans prepared by Lescher & Kobbey, archts., 400 Arizona Natl. Bank Bldg., Phoenix, building 2 story, concrete brick or hollow tile walls, concrete foundation. About $55,000.

Ariz., Chandler—High School—School Trustees having plans prepared by Allison & Allison, archts., 1405 Hibernian Bldg., Los Angeles, constructing three 2 story buildings, consisting of administration, class room and study hall building, commercial and science building and domestic science building. About $125,000. Noted Apr. 3.

Ariz., Gilbert—School—Gilbert School Dist., voted $65,000 bonds to build school. E. B. Cordell, principal.

Ariz., Miami—School—School Dist. No. 26 will sell $100,000 bonds May 6, to build school.

Ariz., Phoenix—Court House and City Hall—Bd. Supervs. Maricopa Co. and City Comrs. plan to build combined courthouse and city hall. About $1,000,000. V. A. Thompson, city mgr. Noted Jan. 16.

Ariz., Tucson—Schools—Bd. Educ. plans election to vote on $375,000 bonds to build high school, industrial training buildings at Drachman and Davis Schools; grade school at 10th St. and Park ave.; and additions to existing buildings. J. E. White, pres.

Wash., Centralia—Temple—B. P. O. E., No. 1083, plans to build temple on Pearl and Magnolia Sts. About $55,000. J. H. Dumon, chn.

Ore., Astoria—Hall—Astor Lodge, No. 6, Knights of Pythias, plans to build 3 story concrete and brick. About $50,000. J. E. Wicks, archt.

Ore., Gervais—Hospital—Company being formed to build and equip hospital. T. Laird, Gervais, chn.

Cal., Burbank—School—School Dist. having plans prepared by Allison & Allison, archts., 1405 Hibernian Bldg., Los Angeles, building 1 story, brick, concrete foundation. About $75,000. Bonds will be voted for project.

Cal., Long Beach—Bank and Office—Cheroske Bros., 443 West Bway., plans to build 6 story, concrete, brick and steel, on 4th and American Aves.

Cal., Los Angeles—Church—St. John's Episcopal congregation, 512 West Adams St., plans campaign to raise $250,000 to build church on Adams and Figueroa Sts. G. Davidson, rector.

Cal., Redwood City—Engine House—See "Bridges."

Cal., San Rafael—Theater and Store—Burtchaell Estate, c/o Reid Bros., archts., 105 Montgomery St., San Francisco, having plans prepared building brick or concrete, on 4th and A Sts. About $125,000.

Cal., Santa Cruz—Theatre—F. D. Hihn, Insurance Merchants Exch. Bldg., San Francisco, having plans prepared by Reid Bros., archts., 105 Montgomery St., San Francisco, building brick or concrete. About $155,000.

N. S., Wolfville—Gymnasium, etc.—City soon receives bids for gymnasium and skating rink. About $100,000.

Que., St. Marie—Hospital—M. Fecteau plans to build 5 story, 60 x 80 ft. brick, concrete foundation. About $100,000. E. Tanguay, 20 D'Aiguillon St., Quebec, archt.

Ont., Midland—Opera House—Midland Opera House Co. plans to build. About $60,000.

Ont., Ottawa—Office—A. McMillen, 82 Sparks St., plans to build 6 story, steel and brick, concrete foundation, on Bank and Laurier Sts. About $60,000.

Ont., St. Catherines—Sunday School—Building Com. Welland Ave. Methodist Church having plans prepared for brick and stone Sunday school on Henry and Elizabeth Sts. About $60,000.

Ont., Simcoe—School—Bd. Educ. soon receives bids building 2 story, brick. Chapman & McKiffin, 95 King St., E., Toronto, archts. G. R. Marston, Simcoe, chn.

Ont., Sudbury—Hotel—New Amer. Hotel Co., Sudbury, plans to build hotel. About $150,000.

Ont., Windsor—Bank—Imperial Bank of Canada, 32 Wellington St. E., plans to build 7 story steel and brick, rein.-con. flooring, concrete foundation, on London and Quellet Sts. About $150,000.

Ont., Windsor—Temple— Masonic Lodge, Windsor, having plans prepared by J. C. Pennington, archt., Windsor, for 3 story, brick. About $200,000.

Man., Winnipeg — Church — Home St. presbyterian congregation having plans prepared for church on Portage Ave. and Home St. About $50,000.

Sask., Saskatoon — Station — Canadian Natl. Rys., 27 Wellington St. E., Toronto, Ont., plans to build station here. About $300,000. A. F. Stewart, div. engr.

B. C., Point Grey—School—School Bd., Kerrisdale, receives bids in about 6 weeks building 3-story, rein.-con and brick, concrete foundation, in Shaughnessy Dist. About $50,000. R. P. S. Twizell, 837 Hastings St. W., Vancouver, archt.

BIDS DESIRED

Conn., Hartford—Market—Until May 6, by city, building 1 story public market on Connecticut Blvd. About $100,000. Whiton & McMahon, 36 Pearl St., archts. Noted Mar. 20.

N. Y., Buffalo—Theatre—J. S. Savage, 26 Triangle St., is receiving bids for rein.-con. moving picture theatre. About $60,000.

N. Y., Cohoes—High School—Until May 21, by Tooker & Marsh, archts., 101 Park Ave., New York City, building 3 story, brick and steel, for Bd. Educ. About $210,000.

N. Y., Long Island City—High School—Until May 6, by Bd. Educ., 500 Fifth Ave., New York City, building 3 story, 100x100 ft. brick and steel addition to Bryant High School on Wilbur Ave., concrete foundation. About $500,000. C. B. J. Snyder, Municipal Bldg., New York City, archt.

N. Y., New York—Loft and Office—Until May 2, by R. Higgins, archt., 126 East 38th St., building 5 story, 25 x 100 ft. brick and steel, concrete foundation, at 45 Maiden Lane, for Lawyers Realty Co., 160 Bway.

N. Y., Troy — Market — Until May 7 (change of date), by Mohican Co., 280 Bway., New York City, building 3 or 4-story, 56 x 100 ft. brick and steel, rein.-con. flooring, concrete foundation. About $150,000. Noted Feb. 20.

N. J., West New York—Until May 5, by Town Council, building rein.-con. and brick school. About $300,000; $10,000 extra for excav.

Pa., Farrell—Bank—Until May 15, by A. C. Bosson, archt., 336 5th Ave., New York City, building 3-story, 55 x 125 ft., brick and steel, concrete foundation, for Colonial Trust Co. About $75,000. Noted Apr. 24.

W. Va., Athens—Dormitory—Until July 10, by A. F. Wysong, archt., Princeton, building 3 story brick at Normal School here. About $60,000.

W. Va., Montgomery—High School—Until May 10, (change of date) by A. F. Wysong, archt., Princeton, building 2 story brick, for Bd. Educ. About $80,000.

Buildings (Continued)

S. C., Charleston—School—Until May 19, by A. B. Rhett, supt. city schools, building 2 story, 100 x 170 ft. brick and concrete on King St. Cost between $90,000 and $100,000. Benson & Barbot, 26 Broad St., engrs.

O., Gallipolis—Dining Hall—Until May 26, by Bd. Administration, Oak St., building 2-story, 48 x 68 ft. rein.-con. and brick addition to West Hall. About $72,000.

O., Ironton—Store and Theatre—Until May 12, by F. L. Packard, archt., Hayden Bldg., Columbus, building 4-story, 66 x 133 ft., steel and concrete, concrete flooring, for H. A. Marting, Ironton. Bids will be received for theatre and store separately. About $190,000. Noted Feb. 6.

Wis., Sheboygan—Exchange and Office—Until May 10, by W. C. Weeks, archt., Ontario Ave., building 4 story, 70 x 80 ft., brick and steel, brick foundation, on 7th and Center Sts., for Citizens Telephone Co., 701 North 8th St. About $70,000. Noted Mar. 20.

Mich., Grand Rapids—School—Until May 16, by H. N. Morrill, business mgr. bd. educ., City Hall, building new Henry School. H. E. Crow, pres. H. H. Turner, 234 Division Ave. N., archt.; advertised in this issue. Noted Mar. 6.

Mich., Highland Park (Detroit P. O.)—Hospital—Until May 12, by city at 20 Gerald Ave., building 4-story hospital and 2-story power house and laundry with connecting tunnel. L. C. Whitsit, 28 Gerald Ave., city engr.; advertised in this issue. Noted Mar. 13.

Minn., Campbell—School—Until May 5, by C. P. Carlson, clk. bd. educ., building 2 story, 50 x 75 ft., rein.-con. and brick addition. About $75,000. G. L. Lockhart, 391 Endicott Bldg., St. Paul, archt. Noted Apr. 17.

Minn., Duluth—Grade School—Until May 7, by C. A. Bromson, secy. bd. educ., Glencoe Bldg., building 3-story, 64 x 180 ft., with wing 1½ story, 40 x 60 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on Riverside Townsite. About $110,000. Croft & Boerner, Lonsdale Bldg., archts. Noted Apr. 24.

Minn., Duluth—Grade School—Until May 7, by C. A. Bronson, secy. bd. educ., Glencoe Bldg., building 3 story, 54 x 64 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on East 3rd St. About $70,000. Croft & Boerner, Lonsdale Bld., archts.

Minn., Red Lake Falls—Hotel—Until May 7, by Red Lake Falls Hotel Co., building 3 story hotel. B. D. Lecl, 1st Natl. Bank Bldg., Grand Forks, N. D., archt.

N. D., Cathay—School—Until May 20, by Comrs. Wells Co., (Fessenden) building 2-story grade and high school here. About $50,000. W. D. Gillespie, Fargo, archt.

Idaho, Blackfoot—Church—Until May 1, by Bldg. Com. Mormon Church, building 2 story, brick. About $150,000. Pope & Burton, New House Bldg., Salt Lake City, engr.

Que., Cartierville — Theatre, etc. — P. Burdotti, 251 Sherbrooke St., W., Montreal, receiving bids for theatre, restaurant, crystal palace, palais de dance, scenic railway and park buildings; also for 2 bridges to connect mainland with Islands on Rivere des Prairies. About $1,000,000.

Ont., Guelph—School—Until May 5, by S. B. Coon & Son, archts., Excelsior Life Bldg., Toronto, building brick school for Bd. Educ. About $50,000. Noted Mar. 13.

Ont., Sault Ste. Marie—Bank—Until May 15, by A. Horsburgh, archt., Bank of Commerce Bldg., Toronto, building 2 story, brick and stone, here, for Bank of Commerce, Toronto. Cost between $50,000 and $60,000.

Ont., Sault Ste. Marie—School—Until May 9, by C. A. Findlay, archt., 527 Queen St. E., building 2 story brick addition to public school for Bd. Educ. About $60,000. E. P. Gibson, chn.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Taunton**—Rectory—Immaculate Conception congregation let contract building 2 story, 40 x 45 ft., brick and concrete, concrete foundation, on Bay St., to C. H. Hodgate, 6 Durfee St., Fall River. About $50,000. Noted Mar. 13.

★**Conn., Bridgeport**—School—St. Michaels Polish congregation, 310 Sterling St., let contract building 3½ story, 90 x 150 ft., brick, steel and concrete, rein.-con. flooring, concrete foundation, on Sterling and Kossuth Sts., to Johnson Bros., 166 Devonshire St., Boston. About $160,000. Noted Apr. 3.

★**N. Y., Brooklyn**—Theater—Levy Bros., 189Montague St., will build 2-story, 130 x 180 ft. brick and steel, brick foundation, on Bedford Ave and Lincoln Rd. About $500,000. Work will be done by day labor.

N. Y., Long Island City—School—C. B. J. Snyder, supt. school building, Municipal Bldg., New York City, received bids building P. S. No. 3, 3 story, 105 x 108 ft., brick and steel, concrete foundation, on Colonial Ave. between Livingston and Meteor Sts., here, from Nugent Constr. Co., 505 5th Ave., $155,000; Emerson Bldg. Corp., 103 Park Ave., $155,687; J. McArthur, 101 Park Ave., $156,135. Contractors all of New York City. Noted Apr. 17.

N. J., Jersey City—Hospital—City received bids building addition, improving and installing new equipment in city hospital, from W. H. & F. W. Cane, Baldwin Ave., masonry, carpentry, and iron work, $963,145; W. Fairier Co., Montgomery St., plumbing work, $136,593; J. H. Cooney, 210 North 4th St., Harrison, heating, $199,287; Hoffman & Elias, 549 Columbus Ave., New York City, electrical work, $82,400. Plans include constructing new wing containing 4 wards, garage, morgue, fumigation building, laboratory, laundry building and tunnnels; also vacuum cleaning plant. Total cost, $1,381,000.

★**O., Bellaire** — Temple — United Mine Workers of Sub. Dist. No. 5, Bridgeport, O., let contract building 3 story, 82 x 120 ft., brick, on 34th and Belmont Sts., to R. R. Kitchen Co., Wheeling, W. Va., $125,000. Noted Mar. 27.

★**O., Cleveland**—Sales—Van Aken & Strock, 6523 Euclid Ave., let contract building 4 story, 80 x 270 ft., rein.-con., steel and brick, on East 66th St. and Euclid Ave., to A. W. Kilbourne Co., 6523 Euclid Ave. About $250,000. Noted Apr. 24.

★**Wis., Sheboygan**—School—School Bd. Dist. No. 3, Mosel Twp., let contract building 2 story, 40 x 110 ft., brick, brick foundation, to Verhulst Bros., Sheboygan.

★**Mont., Hardin** — High School — Bd. Educ. let general contract building 3 story rein.-con. steel and brick, rein.-con. flooring, concrete foundation, on 5th St., to Veatch Co., Billings, $53,000; plumbing, to F. G. Hatch, Hardin, $14,383. Noted Apr. 3.

★**Mo., St. Louis**—Hotel—Portorico Realty Co., 4549 Lindell Blk., will build 7 story, rein.-con., steel and brick, rock and concrete foundation, at 5370 Pershing Ave. About $275,000. Work will be done by day labor.

★**Ore., Salem**—Dormitory—State Bd. Control, Capitol Bldg., let contract building 2 story, 46 x 114 ft. boys dormitory, to Siewert & Engstrom, Salem, $25,411; 2 story, 46 x 114 ft. brick hospital dormitory, to M. W. Lorenz, Worcester Bldg., Portland, $25,372. Noted Apr. 3.

★**Cal., Wasco**—School—Trustees School Dist. let contract building 2 story, 146 x 182 ft., concrete foundation, to H. Eisler, Bakersfield, $59,900. Noted Mar. 20.

Federal Government Work

PROPOSED WORK

N. H., Portsmouth—Laundry—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build. Spec. 3876. About $7000.

Conn., Groton—Paving—U. S. Shipping Bd., Groton Park, soon receives bids for 4500 sq.yd. asphalt macadam pavement, 910 sq.yd. stone gutters and 12,200 sq.ft. broken stone sidewalks. C. D. Pollack, project engr.

N. Y., New York—Fire Protection Apparatus—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install additional fire protection apparatus here; Spec. 3874. About $5000.

N. Y., New York—Garage—Bureau Yards & Docks Navy Dept., Wash., D. C., plans to build at Medical Supply Base; Spec. 3873. About $60,000.

N. Y., New York—Marginal Parkway, Repairs and Alterations—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build marginal parkway, repair and alter kite balloon hangars, here; Spec. 3875. About $3000. Bids will be received at local yard.

Pa., Phila.—Pavement—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build at Marine Corps Barracks; Spec. 3877. About $7000. Bids will be received at local yard.

Pa., Phila.—Steam Distributing System—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here; Spec. 3878. Bids will be received at local yard.

Pa., Phila.—Tunnel—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here; Spec. 3879. Bids will be received at local yard.

Wyoming—Road Work—J. S. Bright, acting dist. engr., U. S. Forest Serv., 301 Tramway Bldg., Denver, Colo., plans to grade 40 mi. Buffalo Tensleep Project, Big Horn National Forest, Johnson and Washakie Counties, cost, $210,000; 50 mi. Wind River Project, Washakie National Forest, Fremont Co.; 25 mi. Hoback Canyon Project, Lincoln Co.; 6 mi. Woods Landing-North Park Project, Albany Co.; 42 mi. Encampment-Slater Project, Carbon Co. and 11 mi. Alladin-Hulett Project, Crook Co.

Montana—Road Work—L. I. Hewes, dist. engr., bur. pub. rds., U. S. Dept. of Agriculture, 628 Post Office Bldg., Portland, Ore., plans to grade 4 mi. Swan River Project, 15 mi. North Fork Flathead Project, Flathead Co.; 4 mi. Glacier Park-Summit Project, Teton Co.; 7.3 mi. Gibbons Pass Project, Ravalli Co. Latter project contingent upon Idaho connection being constructed.

Mo., St. Louis—Waterways—Mississippi Valley Waterways Assn., will ask Congress to appropriate $100,000,000 for following waterway projects; deepening Mississippi River to 6 ft. channel from Minneapolis, Minn., to St. Louis, cost, $8,500,000; building 9 ft. channel in Mississippi River from St. Louis to New Orleans, La., $16,700,000; 6 ft. channel in Missouri River from Kansas City to St. Louis, $8,500,000; 9 ft. channel in Illinois River from Utica, Ill. to St. Louis; completion of remaining 3 of system of 53 locks in Ohio River to make stream navigable from Pittsburgh, Pa., to Cairo, Ill., $23,000,000. Address J. E. Smith, c/o Chamber Commerce.

Ore., Astoria—Marine Railway—U. S. Shipping Bd., Wash., D. C., and Astoria Marine Iron Wks., plan to build marine railway on Young's Bay, including incline rollway and automatic electric ship hauling power, to have 6000 tons deadweight capacity. About $500,000.

Ore., Eugene—Roads—U. S. Dept. Agriculture, 628 Post Office Bldg., Portland, and Lane Co. plan to build county section of McKenzie Pass Rd. County to appropriate $15,000 toward cost.

Cal., Mare Island—Dike—Officials of Local Yard asked Bureau Yards & Docks, Navy Dept., Wash., D. C., to appropriate $1,700,000 to extend Dike No. 12, 2100 ft. into San Pablo Bay, also extend dikes on channel and Corquintez straits.

BIDS DESIRED

Conn., New London — Dredging — Until May 20, by U. S. Engr. Office, New London, for maintenance dredging in New Haven Harbor; advertised in this issue.

Pa., Phila.—Elevator and Shaft—Until May 19, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building here; Spec. 3851. About $14,000; $10 deposit required for plans and specification.

Pa., Phila.—Rip Rap—Until May 26, by Lighthouse Supt. Phila., furnishing rip rap and building mud banks at Baker Range Front Light Station, Delaware River, Del.; advertised in this issue.

Del., Wilmington—Dredging—Until May 27, at U. S. Engr. Office, Old Federal Bldg., Wilmington, dredging Maurice River, N. J.; advertised in this issue.

Va., Quantico—Officers' Quarters and Administration Building—Until May 5, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building here; Spec. 3835; $20 deposit required for plans and specifications. Noted Mar. 20.

W. Va., South Charleston—Cranes—Until May 12, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing here; Spec. 3670. About $1,805,000; $10 deposit required for plans and specifications.

S. C., Paris Island—Buildings—Until May 12, by Bureau Yards & Docks, Wash., D. C., constructing additional buildings, here; Spec. 3855. Noted Apr. 10.

Fla., Jacksonville—Jetty and Revetment—Until May 28, at U. S. Engr. Office, Jacksonville, building jetty and revetment in Miami Harbor (Biscayne Bay); advertised in this issue.

Federal Government Work (Continued)

Fla., Pensacola—Crane—Until May 19, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing 20 ton electric traveling crane wet basin boat shed, here; Spec. 3869. About $10,000; $10 deposit required for plans and specifications. Noted Apr. 24.

O., Cincinnati—Lock and Abutment—Until May 28, by U. S. Engr. Office, 1st Dist., building lock and abutment for Dam No. 34, Ohio River, near Chilo; advertised in this issue.

Ill., Chicago—Superstructure—Until May 26, at U. S. Engr. Office, 508 Federal Bldg., building concrete superstructure on breakwater at Calumet Harbor, Ill., and Ind.; advertised in this issue.

Ill., Elgin—Conduit, Wiring and Lighting Fixtures—Until May 20, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., installing conduit and wiring and lighting fixtures in post office, here; advertised in this issue.

Ia., Fairport—Laboratory—Until May 26, by Comr. Fisheries, Dept. Commerce, Wash., D. C., building laboratory at biological station, here.

Minn., Duluth—Dredging—Until May 21 by U. S. Engr. Office, Duluth, dredging Duluth-Superior Harbor, Minn. and Wis.

Minn., Duluth—Rip-Rap—Until May 22, by U. S. Engr. Office, Duluth, furnishing and placing stone rip-rap along lake face and over top of west breakwater, upper entrance, Keweenaw waterway, Mich.

S. D., Bellefourche—Post Office—Until June 6, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., building, here; advertised in this issue.

Okla., Woodward—Post Office—Until May 6, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., building post office, here. Noted Apr. 3.

Ariz., Sacaton—Dam and Bridge—Until June 2, by H. V. Clotts, supervising engr., U. S. Indian Serv., 528 Federal Bldg., Los Angeles, Cal., building dam and bridge 3 mi. east of here. Project involves 31,700 cu.yd. earth work, 17,740 cu.yd. concrete, 738,500 lb. reinforcing steel, 12,400 ft. round piling, 28,000 ft. wood sheet piling and 18 steel gates; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract.)

★**R. I., Providence**—Remodeling Post Office—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract to Hope Bldg. Co., 87 Weybosset St., $35,793 (90 days). Noted Apr. 17.

★**N. Y., Albany**—Post Office and Custom House—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., let contract altering post office and custom house, to McCann Bldg. Co., Sheridan Ave. and Dove St., $22,940 (90 days). Noted Apr. 3.

★**N. Y., Brooklyn**—Heating Tunnel—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building heating service and tunnel from building "C" to "F" at Naval Hospital Reservation, here, to G. E. Eng. Co., 22 Laight St., New York City, $11,450 (75 days). Noted Apr. 10.

★**N. Y., Rockaway**—Pump House—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building pump house for gasolene system, to C. Meades & Co., 38 Park Row, New York City, $1664. Noted Apr. 24.

★**N. Y., Ward's Island**—Roads—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building roads at Naval Hospital, here, to Fleming, O'Brien & McEntegart, Inc., 116 Bway., New York City, $13,780 (60 days). Noted Apr. 3.

N. J., Cape May—Cold Storage Building—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Apr. 28, building at Section Base, here,

(1) net price and time for work complete, in accordance with drawings and specification;

(2) net price and time added or deducted from (1) for each pile of a length of 25 ft. which is added or deducted from number shown on drawing;

(3) net price and time added or deducted from (1) or (2) for each foot increase or decrease in length of each pile from length of 25 ft. herein specified, from Post McCord, 101 Park Ave., New York City. (1) $34,000 (180 days); (2) add $27.50, deduct $22.50; (3) add $1.10, deduct $0.60.

ROAD WORK—JAMESTOWN, N. D.

Bids were received by Commissioners of Stutsman Co., April 11th, for grading Federal Aid Project No. 24, Sects. 1 and 2, also constructing bridges and culverts on same; Sect. 3, from (A) Stevens Bros., St. Paul, Minn.; (B) W. H. Noel, Jamestown; (C) Humphreys & Stanley Bros., St. Cloud; (D) C. C. Jackson, Jamestown; (E) J. A. Jardine, Fargo; (F) Stevens Bros., St. Paul, Minn. The unit bids were as follows:

SECT. NO. 1	A	B	C
14,607 cu.yd. turnpike excavation	$0.36	$0.25	$0.37½
71,863 cu.yd. earth excavation	.36	.39	.37½
48,593 cu.yd. station overhaul	.01½	.01½	.01½
350 lin.ft. wood guard rail	.60	.40	.65
Extended totals	$32,068	$32,547	$33,383
SECT. NO. 2	**A**	**B**	**C**
20,737 cu.yd. turnpike excavation	$0.25	$0.36	$0.37½
87,555 cu.yd. earth excavation	.39	.38	.37½
73,044 cu.yd. station overhaul	.01½	.01½	.01½
1,365 lin.ft. wood guard rail	.40	.60	.65
19cu.yd. loose rock excavation	2.00	2.00	2.00
Extended totals	$41,010	$42,689	$42,630
SECT. NO. 3	**A**	**B**	**C**
265.06 cu.yd. Class "A" concrete	$25.50	$28.00	$27.50
6,983 lb. metal reinforcement	.09	.07	.09½
1,400 cu.yd. structural excavation	.85	1.00	1.00
Extended totals	$8,586	$9,320	$9,363

ROAD WORK—UTAH

Bids were received by State Road Commission, Salt Lake City, for constructing Salt Lake-Provo Rd., from point south of Midvale to American Fork (excludnig city of Lehi), from (A) J. W. Mellen, Auditorium Bldg.; (B) P. J. Moran, Felt Bldg.; (C) Heuser-Packard Co., Atlas Bldg.; (D) Ryberg Bros., Kearns Bldg., $227,353; (E) Wattis-Samuels Co., Newhouse Bldg., $232,090; (F) J. Stewart Co., Walker Bank Bldg., $232,281; (G) Campbell Bldg. Co., Newhouse Bldg., $297,931; contractors all of Salt Lake City. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
25,782.3 cu.yd. total excavation without classification as per plans	$0.85	$0.96	$1.00
50,000.0 cu.yd. extra excavation	.30	.40	.35
8,700.0 cu.yd. gravel fill measured in wagons delivered on work including spreading and rolling	1.25	1.32	2.00
400.0 cu.yd. excavation for covered drains	1.5	.92	1.00
117,466.0 sq.yd. concrete pavement as per plans 6 in. to 8 in. thick cement to be furnished by State Road Commission	1.29	1.28	1.30
117,466.0 sq.yd. steel mesh reinforcement in place, to be furnished by State Road Commission	.02½	0.1	.03
170,314.0 lin.ft. twisted plain or deformed steel bars, bending and placing, furnished by State Rood Commission	.01½	.005	.01½
26,424.0 lin.ft. elastite or Sarco expansion joint filler in place, to be furnished by State Road Commission	.02	.01	.01½
13,000.0 lb. steel in culverts. To be furnished by State Road Commission	.01½	.01	.01½
106.2 cu.yd. Class "A" concrete in structures	17.50	18.50	13.00
135.9 cu.yd. Class "B" concrete in structures	17.00	16.00	12.00
Laying vitrified pipe, to be furnished by State Road Commission:			
36.0 lin.ft. 30 in.	.80	.92	.90
88.0 lin.ft. 24 in.	.65	.66	.70
1,131.0 lin.ft. 18 in.	.55	.53	.50
704.0 lin. ft. 15 in.	.50	.47	.30
Laying machine made cement pipe, to be furnished by State Road Commission:			
36.0 lin.ft. 30 in.	.85	.92	.95
88.0 lin.ft. 24 in.	.68	.66	.75
1,131.0 lin.ft. 18 in.	.58	.53	.55
704.0 lin.ft. 15 in.	.53	.47	.35
Laying galvanized corrugated iron pipe, to be furnished by State Road Commission:			
36.0 lin.ft. 30 in.	.55	.66	.40
88.0 lin.ft. 24 in.	.45	.53	.40
1,131.0 lin.ft. 18 in.	.35	.32	.40
704.0 lin.ft. 15 in.	.30	.27	.40
Extended totals concrete pavement 6 to 8 in. thick, using machine made cement pipe	$211,324	$214,540	$224,438

RAILWAY—PHILADELPHIA, PA.

Bids were received (lowest 3) by W. S. Twining, dir. dept. city transit, Mershon Bldg., Apr. 15th, building first 4 sections of Frankford-Bustleton & Byberry surface passenger railway in Oxford, Castor and Bustleton Aves., from Frankford Ave. to Lott St., Contr. 701, from (A) North American Railway Constr. Co., 53 West Jackson Blvd., Chicago (awarded contract); (B) E. H. Vare, 1120 Race St.; (C) M. & J. B. McHugh, 892 North Markoe St. The unit bids were as follows:

	A	B	C
9,410 lin.ft. girder rail track (Oxford Avenue)	$12.45	$12.48	$12.53
7,160 lin.ft. girder rail track (Castor and Bustleton Avenues)	12.13	12.15	12.24
8,700 lin.ft. T-rail track, including excavation (Castor Avenue)	4.17	4.60	4.97
12,350 lin.ft. T-rail track, not including excavation (Castor and Bustleton Avenue)	3.93	3.75	4.59
504 lin.ft. T-rail track (Pennypack Creek Viaduct)	13.35	12.48	13.00
4 girder rail turnouts	2,573.00	2,460.00	1,660.00
6 T-rail turnouts	1,537.00	1,550.00	1,359.00
20,000 cu.yd. excavation	.86	1.10	1.20
100 cu.yd. (assumed) excess fill	.98	.75	.66
100 sq.yd. (assumed) granite block paving	5.50	5.90	4.84
40 cu.yd. (assumed) cement concrete paving	9.85	21.60	13.00
2,000 sq.yd. (assumed) bituminous Macadam paving	2.63	2.35	1.20
100 lin.ft. (assumed) armored granolithic curbing	1.50	1.40	1.75
6,000 ft.b.m. yellow pine lumber	78.00	100.00	90.00
35,000 lb. (assumed) cast-iron pipe culverts	.03	.04	.088
100 cu.yd. (assumed) 1:2:4 concrete	15.00	20.50	15.45
500 cu.yd. 1:3:6 concrete	11.28	13.25	13.75
2,000 lb. (assumed) reinforcing steel	.07	.0725	.055
400 reinforced concrete drainage troughs	3.25	6.37	3.85
500 lb. (assumed) rolled steel beams	.06	.09	.066
175,000 lb. steel in Pennypack Creek Viaduct	.07	.07	.066
9 trolley poles (pennypack Creek Viaduct)	60.00	71.00	44.00
Clearing right-of-way (Pennypack Creek Viaduct), lump sum	300.00	435.00	550.00
1,800 lin.ft. (assumed) T-rail additional with all appurtenances	1.10	.90	.83
15 cast iron track inlets	78.00	66.00	71.50
1,000 joints substituting continuous T-rail joints	1.92	2.15	3.30
1,000 joints substituting Abbott T-rail joints	1.29	1.90	3.30
100 days (assumed) use of 5-ton steam roller	16.00	15.0	08.50
$10,000 expenditure force account	10%	10%	15%
Extended totals	$370,892	$380,450	$392,198

Federal Government Work (Continued)

H. S. Roberts & Co., 1123 Bway., New York City, (1) $39,750 (180 days).

W. Linker & Co., 831 Cherry St., Phila., Pa., (1) $43,400 (180 days); (2) add $50, deduct $8; (3) add $100, deduct $0.10. Noted Apr. 17.

★**Md., Aberdeen — Storage —** Ordnance Dept., U. S. Army, Wash., D. C., let contract constructing twelve 1 story, 96 x 400 ft. concrete, temporary storage buildings, concrete and stone foundation, to Aberthaw Constr. Co., 27 School St., Boston, Mass., $450,000.

★**Md., Indianhead—Roads—**Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building county roads, to Sutton & Carsen, 9th and Simpson Sts., Ocean City, N. J., $66,698 (75 days). Noted Apr. 24.

★**Va., Arlington—**Roads—Dist. Comrs., Dist. Bldg., Wash., D. C., let contract building macadam roads at Arlington Natl. Cemetery, here, to L. M. Johnston, Arlington, bituminous bound roads, $2.45 sq.yd., gravel walks, $1.20 sq.yd.

Va., Hampton Roads—Storehouse—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Apr. 28, building 1 story, rein.-con. storehouse, here,

(1) net price and time for superstructure complete in all details and in accordance with drawings and specification. The above price shall be based on using coal-tar pitch, felt and slag roofing, based on 1300 sprinkler heads;

(2) amount added or deducted from net price under (1) for each timber pile in excess of or less than number indicated on drawings, based on length of 45 ft. for each pile;

(3) amount added or deducted from net price stated under (1) for each linear foot of timber pile in excess of or less than 45 ft. per pile. This includes both bearing and test piles;

(4) amount added or deducted from net price under (1) for each timber test pile in place based on length of 45 ft. All test piles will be paid for under this item. For all test piles remaining in place named under (1) will be made in accordance with price per pile named by bidder under (2);

(5) amount added or deducted from net price under (1) for use of gypsum precast roof slabs instead of gypsum case in place roof slabs;

(6) amount added or deducted from net price stated under (1) for use of asphalt mastic paving instead of asphalt block paving;

(7) amount and time deducted from net price and time stated under (1) for omission of sprinkler system complete, based on 1300 sprinkler heads;

(8) net price and time for sprinkler system installed complete based on 1300 sprinkler heads including all stand pipes;

(9) amount added or deducted from net price stated under (1) and (8), respectively for each sprinkler head in excess of or less than 1300 heads;

(10) amount added or deducted from net price under (1) for installations of built up asbestos roofing instead of coal-tar pitch-felt and slag or gravel roofing specified in (1). Amount stated under this item shall take full account of changes in roofing and flashing requirements.

(11) amount added or deducted from net price under (1), for installation of built up asphalt roofing instead of coal-tar pitch-felt and slag or gravel roofing specified in (1). Amount stated under this item shall take full account of changes in roofing and flashing and counterflashing requirements;

Note—All bids under (1) must be accompanied with bids on (2), (3), (4), (5), (6), (7), (9), (10) and (11), from

H. F. Friedstet, 327 South La Salle St., Chicago, Ill., (1) $287,043, (210 days); (2) $11; (3) add $.50, deduct $.12; (4) $60; (6) add $9000; (9) $4.50.

Consolidated Eng. Co., 243 Calvert Bldg., Baltimore, Md., (1) $299,000, (210 days); (2) $13; (3) add $.45, deduct $.05; (4) $30; (6) deduct $4160; (7) $19,800; (8) $19,800; (9) $19; (10) add $1400.

Irwin & Leighton, 126 North 12th St., Phila., Pa., (1) $307,000, (200 days); (2) add $16.80, deduct $8.50; (3) add $.37, deduct $.18; (4) $20; ((5) add $800; (7) deduct $18,000 (9) add $6, deduct $5.00; (10) add $700; (11) $1200; (12) deduct $1500; (13) deduct $10,000. Noted Apr. 24.

Va., Hampton Roads—Storehouse—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Apr. 28, building 6 story rein.-con. storehouse at Naval Operating Base, here,

(1) net price and time for entire work, complete in accordance with drawings and specification, based on using coal-tar pitch, felt, and gravel or slag roofing and 3900 sprinkler heads;

(2) amount added or deducted from net price stated under (1) for each timber pile in excess of or less than number indicated on drawings, based on a length of 45 ft.;

(3) amount added or deducted from net price stated under (1) for each linear foot of timber pile in excess of, or less than 45 ft. per pile. This includes both bearing and test piles;

(4) amount added to net price stated under (1) for each timber test pile in place based on length of 45 ft. All timber test piles will be paid for under this item. For all timber test piles remaining in place as part of finished structure, deduction from price named under (1) will be made in accordance with price per pile named by the bidders under (2);

(5) amount added or deducted from net price stated under (1) for use of concrete pile footings instead of timber pile footings under all columns; concrete pile footings to be in accordance with drawings and specifications. Type of concrete pile proposed to be used to be specified by bidder with his proposal. Number of piles required for each type of footing is noted on drawings, and change in price stated under this item shall take full account of change in quantities of excavation, concrete, and reinforcing steel. Price stated under this item shall be based on total number of piles indicated on drawings, and on a length of 30 ft. from point to cut-off for each pile;

(6) amount added or deducted from net price stated under (1) for each concrete pile in excess of or less than number indicated on drawings, based on a length of 30 ft.;

(7) amount added to net price stated under (1) for each concrete test pile, in place, based on a length of 30 ft. All concrete test piles will be paid for under this item. For all concrete test piles remaining in place as a part of finished structure, deductions from price named under (1), will be made in accordance with price per pile named by bidder under (6);

(8) amount added or deducted from net price stated under (1) for each linear foot of concrete pile in excess of or less than 30 ft. per pile. This includes both bearing and test piles;

(9) amount added or deducted from net price stated under (1) for installation of built-up asbestos roofing instead of coal-tar pitch, felt and slag or gravel roofing specified herein;

(10) amount added or deducted from net price stated under (1) for installation of built-up asphalt roofing instead of coal-tar pitch, felt and slag or gravel roofing specified herein;

(11) amount deducted from net price and time stated under (1) for omission of sprinkler system, including all stand piles; based on 3900 sprinkler heads;

(12) net price and time for sprinkler system complete including all stand piles; based on 3900 sprinkler heads;

(13) amount added or deducted from net price stated under (1) and (12) for each sprinkler head in excess of or less than number stated above;

(14) amount and time to be deducted from net price and time stated under (1) for omission of all elevators;

(15) net price and time for all elevators complete in building.

Note—All bids under (1) must be accompanied by bids on (2)-(11) inclusive and (13) and (14), from

Consolidated Eng. Co., 243 Calvert Bldg., Baltimore, Md., (1) $784,000 (210 days); (2) $13; (3) add $0.40, deduct $0.05; (4) $30; (5) add $3400; (6) $47; (7) $60; (8) add $1.80, deduct $0.75; (9) add $211; (10) deduct $452; (11) $39,375; (12) $29,375; (13) $5; (14) $64,375; (15) $63,375.

G. E. Wyne, 82 Home Life Bldg., Wash., D. C., (1) $790,000, (210 days); (2) add $15, deduct $5; (3) add $0.35, deduct $0.08; (4) add $40; (9) add $500; (10) $500; (11) deduct $39,500; (13) add $6, deduct $4.50; (14) deduct $79,500.

H. F. Friedstet Co., 327 South La Salle St., Chicago, Ill., (1) $809,713 (210 days); (2) $11; (3) add $0.50, deduct $0.12; (4) $60; (11) deduct $57,500; (13) $4.50; (14) deduct $63,696.

Otis Elevator Co., Metropolitan Bank Bldg., Wash., D. C., (15) $79,100 (180 days).

Rockwood Sprinkler Co., 134 South La Salle St., Chicago, Ill., (12) $46,096 (90 days); (13) $4.50. Noted Apr. 24.

Va., Hampton Roads—Storehouse—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Apr. 28, building 1 story, rein.-con. aircraft storehouse, at Naval Operating Base, here,

(1) net price and time for structure complete in all details and in accordance with drawings and this specification. The above price shall be based on use of coal-tar pitch, felt and slag or gravel roofing;

(2) amount added or deducted from net price stated under (1) for each timber pile in excess of or less than number indicated on drawings, based on a length of 45 ft. for each pile;

(3) amount added or deducted from net price stated under (1) for each linear foot of timber pile in excess of, or less than 45 ft. This includes both bearing and test piles;

(4) amount added to net price stated under (1) for each timber test pile in place based on a length of 45 ft. All timber test piles will be paid for under this item. For all test piles remaining in place on part of finished structure, deductions from price named under (1) will be made in accordance with price per pile named by bidder under (2).

(5) amount added or deducted from net price stated under (1) for use of concrete pile footings instead of timber piles under all footings; concrete pile footings shall be in accordance with drawings and specifications. Type of concrete piles proposed to be used to be specified by bidder with his proposal. Number of concrete piles required for each type of footing is noted on drawings, and change in price stated under this item shall take full account of change in quantities of excavation; concrete, and reinforcing steel price stated under this item shall be based on total number of piles indicated on drawings, and on a length of 30 ft. from point to cut-off, for each pile;

(6) amount added or deducted from net price stated under (1) for each concrete pile in excess of or less than number shown on drawings, based on length of 30 ft.;

(7) amount added or deducted from net price stated under (1) for each linear foot of concrete pile in excess of or less than 30 ft. This includes both bearing and test piles;

(8) amount added to net price stated under (1) for each concrete test pile in place, based on a length of 30 ft. All concrete test piles will be paid for under this item. For all concrete test piles remaining in place as part of finished structure, deductions from price named under (1) will be made in accordance with price per pile named by bidder under (6);

(9) amount added or deducted from net price stated under (1) for use of gypsum precast roof slabs instead of gypsum cast in place roof slabs;

(10) amount added or deducted from net price stated, under (1) for installation of built-up asbestos roofing instead of coal-tar pitch, felt and slag or gravel roofing specified in (1). Amount stated under this item shall take full account of changes in roofing and flashing and counter-flashing requirements;

(11) amount added or deducted from net price stated under (1) for installation of built-asphalt roofing instead of coal-tar pitch, felt and slag or gravel roofing specified in (1). Amount stated under this item shall take full account of changes in roofing and flashing and counter-flashing requirements;

(12) amount and time deducted from net price and time stated under (1) for omission of all elevators in building;

(13) net price and time for all elevators complete, installed in building;

Note—All bids under (1) must be accompanied by bids under (2)-(12) inclusive, from H. F. Friedstet, 327 South La Salle St., Chicago, Ill., (1) $1,143,040, (210 days); (2) $11; (3) add $0.50, deduct $0.12; (4) $60; (5) add $36,352; (6) $42; (7) add $1.65, deduct $0.75; (8) $60; (10) deduct $150; (11) $1000; (12) $69,443.

I. Lesley Co., 209 McKevitt Bldg., Norfolk, Va., (1) $1,212,000, (200 days); (2) add $20, deduct $20; (3) $0.40; (4) add $32; (5) deuct $38.50; (6) add $42, deduct $23; (7) add $1.70, deduct $0.75; (8) add $50; (10) add $1886; (11) add $2400; (12) deduct $64,900; (13) $64,900, (200 days).

H. Foulkrod, 1406 Commonwealth Trust Bldg., Phila., Pa., (1) $1,212,025, (210 days); (2) add $14, deduct $10; (3) add $0.40, deduct $0.05; (4) add $50; (5) deduct $61,840.

Otis Elevator Co., Metropolitan Bank Bldg., Wash., D. C., (13) $64,900 180 days.

A. B. See Elevator Co., 220 Bway., New York City, $54,630; doors, $10,200; operating devices, $3450. Noted Apr. 24.

Federal Government Work (Continued)

W. Va., South Charleston—Fence—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids building at U. S. Naval Ordnance Plant, here.
(1) net price per foot and time of completion for completing construction of fence, including gates, in accordance with accompanying drawing and specification;
(2) net price for furnishing and erecting 4-ft. gates complete, including posts, struts, tie rods and hardware are, including locks;
(3) net price for furnishing complete as specified in (2), but not including erection;
(4) net price for furnishing and erecting 8 ft. gates complete, including posts, struts, tie rods and hardware, including locks;
(5) net price for furnishing complete as specified in (4), but not including erection;
(6) net price for furnishing and erecting 18 ft. gates complete, including posts, struts, tie rods and hardware, including locks;
(7) net price for furnishing complete as specified in (6), but not including erection;
(8) net price for furnishing and erecting 24 ft. gate complete, including posts, struts, tie rods and hardware, including locks;
(9) net price for furnishing complete as specified in (8), but not including erection, from
Wayne Iron Wks., 818 Commonwealth Trust Bldg., Phila., Pa., (1) $1.95 (140 days); (2) $56; (3) $46; (4) $75; (5) $65; (6) $147; (7) $129; (8) $125; (9) $110.
W. A. Snow Iron Wks., 32 Portland St., Boston, Mass., (1) $2.17 (107 days); (2) $60; (3) $45; (4) $75; (5) $55; (6) $1.25; (7) $105; (8) $175; (9) $150.
Cyclone Fence Co., 2787 Woolworth Bldg., New York City, (1) $2.25 (60 days); (2) $60; (3) $48; (4) $120; (5) $100; (6) $146; (7) $126; (8) $188; (9) $168; alternate on (1) $2.15.

W. Va., Wheeling—Rip Rap—U. S. Engr. Office, Cincinnati, O., received bids furnishing 4000 tons rip rap stone for Ohio River Dam Nos. 12, 13, 14, 15 and 16, from Armstrong & Cresap Co., Wheeling, $19,200; Ohio River Contg. Co., Ellwood City, Pa., $20,400; Foundation Co., Fulton Bldg., Pittsburgh, Pa., $23,600.

★**Fla., Pensacola**—Power Plant Improvements—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract for power plant improvements at Naval Air Station, here, to Carroll Electric Co., 714 12th St., Wash., D. C., $54,500 (150 days). Noted Apr. 3.

★**Mich., Mt. Pleasant**—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., let contract, to Henry & Hatfield Constr. Co., 120 South Meridan St., Indianapolis, Ind., $55,992. Noted Apr. 24.

N. D., Bismarck—Dormitory—C. Sells, comr. Indian Affairs, Wash., D. C., received bids Apr. 28, building dormitory here, from W. O'Neil & Son Co., Faribault, Minn., $43,655 (200 days); McManus Taroski, St. Paul, $44,986 (200 days); W. D. Lovell, 1415 South East 8th St., $45,200 (160 days). Noted Apr. 10.

★**Mont., Great Falls**—Roads—Bureau Pub. Rds., Missoula, let contract building 18.9 mi. Belt Creek Natl. Forest Rd., Cascade Co., to White & Brown, Great Falls, $103,488. Noted Apr. 3.

Tex., Gilmer—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Apr. 23, building post office here, from Henry & Hatfield Constr. Co., 120 South Meridian St., Indianapolis, Ind., $48,572; W. O'Neil & Sons, Halletteville, Tex., $48,971, alternate, omitting mezzanine, $46,418; W. D. Lovell, 1415 H St., S. E., Minneapolis, Minn., $49,972. Noted Mar. 13.

Ore., Portland—Roads—Bur. Pub. Rds., U. S. Dept. Agriculture, Post Office Bldg., received only bid building McClellan Pass National Rd., Ranier National Forest, Pierce Co., from Alfred, James & Hendricks, Box 826, Centralia, Wash., $167,584, using log culverts and furnishing explosives; $169,535, metal pipe; Blewitt Pass Rd., Kittitas and Chelan Counties, Wash., (a) concrete dry rubble headwalls, contractor to furnish explosive; (b) cement rubble headwall, metal pipe, government furnishing explosives, from O. Hansen, 408 Empire State Bldg., Spokane, Wash., (a) $134,441; (b) $141,051; Rojette, Fobert & Winters, Spokane, Wash., (a) $147,381; (b) $150,024; Schacht Constr. Co., Yakima, Wash., (a) $154,732; (b) $160,602. Noted Apr. 17.

Miscellaneous

PROPOSED WORK

Swimming Pool—Hanover, N. H.—Dartmouth College, Inc., plans to build 2 story, 30 x 90 ft. concrete swimming pool on south end of Alumnae Bldg. C. A. Rich, 320 5th Ave., New York City, engr.

Trestle—Springfield, Mass.—City soon receives bids building mass concrete trestle in Sumner St. yard. About $15,000.

Dam—East Hartford (Hartford P. O.) **Conn.**—Town plans to build concrete dam at junction of Coldbrook Stream and Roaring Brook, here. About $100,000. C. H. Olmstead, 1175 Main St., engr.

Transmission Line—Amsterdam, N. Y.—Adirondack Electric Corp., 30 East Main St., plans to build transmission line from here to Little Falls. About $45,000.

Tanks—Brooklyn, N. Y.—Polytechnic Institute, 85 Livingston St., plans to install 2 steel measuring or storage tanks in hydraulic laboratory, cylindrical or square, 84 in. maximum diam. over all, 100 in. maximum length, with 2000 gal. capacity, steel plate not less than ⅞ in. thick, conical, dished or hopper bottom and open top. H. P. Hammond, professor of sanitary and hydraulic eng.

Tanks—Geneva, N. Y.—Standard Oil Co., 26 Bway., New York City, plans to build several oil tanks and containers and brick buildings here. About $20,000. Address P. O'Malley, local representative.

Sand—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro., rejected bids received Apr. 3, furnishing and delivering 6500 cu.yd. sand. Noted Apr. 10.

Driers—Schenectady, N. Y.—Bd. Contr. & Supply soon receives bids for 2 new driers in connection with garbage disposal plant.

Transmission Line—Watertown, N. Y.—Northern New York Utilities, Inc., Light & Power Bldg., plans to build 6½ mi. transmission line from here to Brownville, replacing present 3000 volt current with one of 22,000 volts.

Pipe—Port Huron, Mich.—City soon receives bids furnishing 7000 ft. 6-8 in. c.i. water pipe; five 5 x 6 x 4 in tees, Class B, twelve 6 x 6 x 6 in. tees, Class B, all hub ends, three 6 x 8 in. reducers hub and spigot, Class B, ten 6 x 6 x 6 x 6 in. crosses all hub ends, Class B, six 8 x 8 x 6 x 6 in. crosses, all hub ends Class B, six 4 in. Michigan fire hydrants steamer, six 6 in. gate valves, 5 tons lead. L. C. Elliott, city clk.

Telephone Lines—Ryegate, Mont.—Pub. Serv. Telephone Corp. plans to install telephone lines. About $40,000.

Park Entrance—St. Louis, Mo.—Bd. Pub. Serv. having plans prepared for entrance to Forest Park at Tamm Ave. About $20,000. N. Cunliff, park comr.

Body Gates, etc.—Colville, Wash.—City Water Comn. soon lets contract furnishing twelve 2 in. iron body gates, four hundred ¾ in. lead goose necks with Mueler corporation cocks for galvanized pipe, twenty-five ¾ unions galvanized, twenty 45 degree L. galvanized, fifty ¾ in. L. galvanized, and one hundred ¾ in. assorted nipples. J. H. King, clk.

Pier Extension—Astoria, Ore.—Port of Astoria Comn. soon lets contract building 300 ft. extension to Pier No. 1. R. R. Bartlett, engr. Noted Apr. 3.

Breakwater — Hammond, Ore. — Federal Government authorized city to construct breakwater at foot of Ford St. dock.

Ovens-Marshfield, Ore.—Mountain States Power Co. plans to rebuild dutch ovens under power plant boilers at Smith Mill. A. L. Martin, mgr.

Marine Ways — Portland, Ore. — Marine Repair & Constr. Co. plans to build new ways capable of handling 200 ft. ships, 30 x 190 ft. mold loft and 20 x 20 ft. office building, at foot of Albina Ave. H. D. Sandstone, pres.

Boulevards, Parkways, etc.—Beverly Hills, Cal.—A. Letts, proprietor, Bway. Dept. Store, 401 South Bway., purchased 3296 acre site between Sawtelle and Beverly Hills, and will engage landscape architect to plan system of boulevards, parkways, etc., and build streets, curbs, sidewalks, sewerage system, lighting system, etc., preparatory to placing tract on market as high class residential section.

Harbor Improvements—Los Angeles, Cal.—City election May 6 to vote on $4,500,000 bonds to improve Los Angeles Harbor, (San Pedro). Work involves dredging, bulkheads, land reclamation, grain elevators, coal bunkers, fuel and vegetable oil tanks, wharves, freight sheds, freight handling equipment and paving 10 mi. highway including tunnel under West Basin or bridge over same. J. W. Ludlow, City Hall, harbor engr.

Retaining Wall—Redwood City, Cal.—See "Bridges."

Skating Rink—Wolfville, N. S.—See "Buildings."

Retaining Wall—St. John, N. B.—City plans to build retaining wall on Main St. from Munway to Sheriff Sts. S. F. Fisher, comr.

Scenic Railway—Cartierville, Que.—See "Buildings."

Dam—Montmagny, Que.—City plans to build dam, eelctric line and power house. About $400,000. Gauvin & Lessard, Quebec, archts.

Incinerator—Ft. William, Ont.—City had plans prepared for incinerator. About $110,000.

Transmission Line—Galetta, Ont.—Galetta Electric Power Co., Galetta, having estimates prepared extending line to Arnprior

BIDS DESIRED

Stone—Cranston (Providence P. O.)—**R. I.**—Until May 1, by Bd. Contr. & Purchase, furnishing 5000 tons crushed and screened stone (bids will also be received for 10,000 tons). D. D. Waterman, clk.

Driving Piles—Syracuse, N. Y.—H. C. Allen, city engr., receiving bids for driving piles for foundations for 2 garbage disposal plant buildings on salt lands. Contract will include construction of embankment at one end. About $11,000.

Elevated Coal Bin, etc.—Harrisburg, Pa.—See "Waterworks."

Pipe—Detroit, Mich.—Until May 6, by Bd. Water Comrs., furnishing 20,930 ft. 54½ in. steel pipe and 20,930 ft. 48 in. lock bar pipe. G. H. Fenkell, 232 Jefferson Ave., engr.

Road Oil—Sheboygan, Wis.—Until May 6, by Bd. Pub. Wks., furnishing 30,000 gal. road oil. C. U. Boley, City Hall, engr.

Retaining Wall—Albert Lea, Minn.—See "Excavation and Dredging."

Road Graders—Grand Forks, N. D.—Until May 6, Comrs. Grand Forks Co., furnishing six man, 4 horse, blade road graders weighing not less than 1200 lb.

Lighting System—Mandan, N. D.—Until May 15, by City Comrs., furnishing and installing ornamental street lighting system on 80 blocks. Black & Griffin, engrs., advertised in this issue.

Granite Blocks, etc.—Sherbrook, Que.—Until May 12, by T. Tremblay, city engr., for paving 6889 sq.yd. with granite block, 16,750 sq.yd. asphalt on concrete base, 1836 sq.yd. concrete and 2000 ft. curbing. About $400,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Car Barn—Springfield, Mass.**—Springfield St. Ry., 7 North Main St., let contract altering timber car barn, on Bond St., to E. J. Pinney, 264 Main St. About $15,000.

★**Tanks, etc.—Long Island City, N. Y.**—M. E. Connolly, pres. Queens Boro, let contracts furnishing and delivering four 5000 gal. storage tanks to C. Meade & Co., 38 Park Row, $2914; 350,000 gal. road oil, 100,000 gal. bituminous road surfacing material and 75,000 gal. road oil, to Texas Co., 17 Battery Pl., $16,940, $5500 and $4125 respectively; 65,000 asphalt paving blocks, to Hastings Paving Co., 25 Broad St., $5736. All contractors of New York City. Noted Apr. 10.

Paving Material—New York, N. Y.—H. Bruckner, pres. Bronx Boro., received bids Apr. 22, furnishing 25 tons paving pitch and 150,000 gal. tar road oil, from Barrett Co., 17 Battery Pl., $475 and $15,000 respectively; 200,000 gal. asphaltic road oil, from Standard Oil Co., 26 Bway., $9430; Texas Oil Co., 17 Battery Pl., $9540; Warner Quinlan Asphalt Co., 79 Wall St., $9600. Noted Apr. 17.

★**Motor Truck—Watertown, N. Y.**—Bd. Pub. Wks. let contract furnishing 3½ ton motor truck to B & D Motor Sales Co., 352 High St. About $4085.

★**Dyke—Jersey City, N. J.**—City let contract building 8500 ft. sod-dyke at Droyers Point, Jersey City Meadows, to Stillman-Delahanty Ferris Co., Exch. Pl., $15,000.

Miscellaneous (Continued)

Steel—Phila., Pa.—W. S. Twining, dir. dept. city transit, Mershon Bldg., received lowest 3 bids furnishing and erecting in place 1500 tons steel for Frankford Elevated Ry., from Phoenix Bridge Co., Phoenixville, $176,399; Bethlehem Steel Bridge Corp., Bethlehem, $178,331; Amer. Bridge Co., Widener Bldg., $182,600. Noted Apr. 10.

★**Pig Lead and Duct Pipe—Baltimore, Md.**—Bd. Awards let contract furnishing pig lead, for use of City Water Dept., to J. Robertson Lead Co., 827 South Howard St., $13,600; duct pipe, for use of City Electrical Comn., to Shawmut Clay Mfg. Co., Shawmut, Pa., and Fibre Conduit Co., $20,000.

★**Tanks—Baltimore, Md.**—Standard Oil Co., Pier 2, Pratt St., let contract building eight 40 x 120 ft., steel oil tanks, on O'Donnell and 4th Sts., to Riter-Conley Co., Sparrows Point, $128,000.

★**Valves—Baltimore, Md.**—Bd. Awards let contract, to Rensselaer Valve Co., Ontario St., Troy, N. Y., $17,176, for two hundred and seventy-five 4 in., five hundred 6 in., six 8 in., twenty 10 in., ten 12 in., five 16 in., and five 20 in. iron body gate valves. Noted Feb. 6 under "Water works."

Paving Materials—Detroit, Mich.—Dept. Purchases & Supplies, 1302 Real Estate Exch. Bldg., received bids, Apr. 10, furnishing 75,000 bbl. Portland cement, (a) cloth sacks per bbl.; (b) paper sacks per bbl.; (c) in bulk per bbl., from Huron Portland Cement Co., foot Riopelle St., (a) $2.33; (b) $2.68; (c) $2.03; Wabash Portland Cement Co., 1824 Ford Bldg., (a) $2.04; (b) $2.39; J. Calvert Sons Co., 145 Griswold St., (a) $2.38; (b) $2.73; (c) $2.08; Wyandotte Port Cement Co., Wyandotte, (a) $2.23; (b) $2.58; (c) $1.93. Former bids rejected. Noted Apr. 3.

★**Pipe, etc.—Detroit, Mich.**—Bd. Water Comrs., 232 Jefferson Ave., let contracts furnishing 1200 ft. Class C 36 in. c. i. pipe, to Lynchburg Fdry. Co., Peoples Gas Bldg., Chicago, $56.60 per ton; 100,000 lbs. liquid chlorine, to Hooker Electro Chemical Co., 40 Wall St., New York City, $.055 per lb.; one hundred fifty 4 in. gate valves, to Flower Valve Co., Clayton and Parkinson Sts., $21 each; 1 concrete mixer ½ cu.yd. capacity, to Good Rds. Supply Co., 1408 Ford Bldg., $785. Noted Apr. 3.

Breakwater—Sheboygan, Wis.—City received bids building breakwater along shore of Lake Michigan opposite Vallrath Park, 490 lin.ft., from McCullen & Pitz Co. 8th St., Manitowoc, $14,455; Great Lakes Dredge & Dock Co., 491 Canal St., Milwaukee, $21,805. Noted Apr. 24.

★**Elevated Roadway—Portland, Ore.**—Multnomah Co. let contract furnishing lumber and hardware and removing old trestle and building elevated roadway at Sauvies Island, North approach to Burlington Ferry, to Jacobsen Contg. Co., McKay Bldg., $2425; driving piles, to R. Wakefield, Worcester Bldg., $.37 per ft. Noted Feb. 27.

★**Pipe—Los Angeles, Cal.**—Bd. Pub. Serv. let contracts, to N. O. Nelson Mfg. Co., 439 East 3rd St., furnishing 20,000 ft. ¾ in., 2500 ft. 1¼ in., 2500 ft. 2 in. and 1000 ft. 3 in. galvanized iron water pipe, at $5.55, $16.95, $22.80 and $47.15 per 100 ft. respectively; to Lacy Mfg. Co., Washington Bldg., 10,000 ft. 6 in. riveted sheet steel pipe, $0.625 ft.; to Water Works Supply Co., Los Angeles, three 18 in. gate valves, $494 each.

★**Cement Flooring, etc.—Wineville, Cal.**—C. Stern & Sons, Van Nuys Bldg., Los Angeles, let contract for 40,000 sq.ft. cement floors and concrete foundations for machinery, to G. Odemar, 1433 Valencia St., Los Angeles. This work in connection with converting winery into cannery. Noted Mar. 6 under "Industrial Works."

★**Pipe, Valves, Fittings, etc.—Montreal, Que.**—City let contract for 30 in. c. i. pipe, valves and fittings in connection with concrete conduit necessary to increase water supply from aqueduct, to J. Ballantyne Co., 163 Nazareth St. Noted Mar. 6 under "Waterworks."

★**Sea Wall—New Toronto, Ont.**—City let contract building 350 ft. seawall to protect pumping grounds, to R. C. Huffman, 14 Wellington St. E. Cost plus 10 per cent. Noted Mar 20.

ROADS—PROVIDENCE, R. I.

Contract No. 4

Bids were received by Water Supply Bd., Apr. 9, building east road from Plainfield Pike to Bald Hill Rd., from (A) E. W. Foley Contg. Corp., 34 Pine St., New York City, (awarded contract); (B) W. V. Polleys Co., 1405 Turks Heads Bldg., Providence; (C) Sperry Eng. Co., 82 Church St., New Haven, Conn. The unit bids were as follows:

	A	B	C
8 acres clearing and grubbing	$500.00	$200.00	$200.00
12,000 cu.yd. earth excavation	1.25	1.50	1.15
2,000 cu.yd. rock excavation	4.00	3.00	3.50
5,000 cu.yd. borrow	1.00	1.25	1.20
500 cu.yd. soil dressing	1.00	1.00	1.90
250 cu.yd. concrete masonry	20.00	15.00	15.00
350 bbl. Portland cement	3.75	4.00	4.30
50 cu.yd. paving and dry masonry	8.00	10.00	9.00
450 sq.yd. cobble gutters	2.00	1.50	1.25
1,500 cu.yd. stone fill base	2.00	2.00	4.90
50 cu.yd. gravel and broken stone	5.00	3.00	4.75
1,500 lin.ft. wooden guard rail	.60	.50	.35
2,000 lb. steel for reinforcing concrete	.10	.10	.07
500 lin.ft. tile pipe, 6 in. in diameter	1.00	.50	.50
100,000 cu.yd. overhaul, equivalent to 100,000 cu.yd. hauled 100 ft.	.01	.03	.02
Extended totals	$45,763	$45,950	$46,258

Contract No. 7

Bids were received by Water Supply Bd., Apr. 9, relocating Plainfield Pike, west of Clayville, from (A) Sperry Eng. Co., Inc., 82 Church St., New Haven, Conn., (awarded contract); (B) E. W. Foley Contg. Corp., 34 Pine St., New York City; (C) Famiglietti Bros., Inc., 166 B'way., Providence. The unit bids were as follows:

	A	B	C
15 acres clearing and grubbing	$175.00	$500.00	$264.00
20,000 cu.yd. earth excavation	.95	1.35	1.40
2,000 cu.yd. rock excavation	3.00	4.00	4.30
10,000 cu.yd. borrow	1.30	1.00	1.90
500 cu.yd. soil dressing	1.90	1.00	1.50
190 cu.yd. concrete masonry	15.00	20.00	21.50
270 bbl. Portland cement	4.30	3.75	3.90
50 cu.yd. paving and dry masonry	9.00	8.00	8.80
1,200 sq.yd. cobble gutters	1.25	2.00	1.55
400 cu.yd. stone fill base	4.90	2.50	2.40
60 cu.yd. gravel and broken stone	4.75	3.50	2.70
3,000 lin.ft. wooden guard rails	.35	.60	1.45
2,500 lb. steel for reinforcing concrete	.07	.10	.07
600 lin.ft. tile pipe, 6 in. in diameter	.50	1.00	.54
150,000 cu.yd. overhaul equivalent to 150,000 cu.yd. hauled 100 ft.	.02	.01	.015
Extended totals	$54,306	$65,973	$76,024

ROAD WORK—UTAH

Bids were received by State Road Commission, Salt Lake City, constructing Salt Lake-Weber State Road from Clearfield to Sunset, from (A) Lynch Constr. Co., McIntyre Bldg.; (B) A. J. Gillis, Kearney Bldg.; (C) P. J. Moran, Felt Bldg., contractors all of Salt Lake City. The unit bids were as follows:

	A	B	C
5,452.6 cu.yd. total excavation as per plans	$0.72	$1.00	$1.13
880 cu.yd. excavation	.90	.50	.92
34,466 sq.yd. bituminous concrete pavement 2-in. thick surface	.....	.....	.80
2,780 cu.yd. gravel fill measured in wagon delivered on work, including spreading and rolling	1.18	.....	1.64
34,466 sq.yd. crushed stone base, 4 in. thick, after compression per sq.yd.	.....	.....	.....
1,400 cu.yd. excavation for covered drains	.80	1.00	.92
460 cu.yd. gravel backfill (drain pipe)	1.08	1.75	1.98
34,466 sq.yd. concrete pavement as per plans, 6 in. to 8 in. thick. Cement to be furnished by State Road Commission	1.18	1.25	1.34
34,466 sq.yd. steel mesh reinforcement in place. To be furnished by the State Road Commission	.03	.04	.02
42,500 lb. twisted plain or deformed steel bars (bending and placing) To be furnished by State Road Commission	.01	.02½	.01
7,800 lin.ft. Elastite or Sarco expansion joint filer. To be furnished by State Road Commission	.02	.02½	.01
34,466 sq.yd. concrete base as per plans, 4 in. to 6 in. thick. Cement furnished by State Road Commission	.85	.....	.89
46.1 cu.yd. concrete class "B." Cement and steel furnished by State Road Commission. Price to include bending and placing reinforcement	13.00	25.00	16.00
Laying vitrified pipe to be furnished by State Road Commission:			
30 lin.ft. 24-in.	.80	.30	.66
425 lin.ft. 18-in.	.50	.20	.53
90 lin.ft. 15-in.	.35	.20	.47
210 lin.ft. 12-in.	.22	.20	.40
Laying second grade vitrified pipe to be furnished by State Road Commission:			
1700 lin.ft. 18-in.	.45	.20	.40
900 lin.ft. 12-in.	.22	.18	.27
1800 lin.ft. 15-in.	.30	.20	.32
Laying machine made cement pipe to be furnished by State Road Road Commission:			
30 lin.ft. 24-in.	.80	.40	.66
425 lin.ft. 18-in.	.50	.35	.53
210 lin.ft. 12-in.	.22	.35	.40
90 lin.ft. 15-in.	.35	.35	.47
Laying galvanized corrugated iron pipe to be furnished by State Commission:			
425 lin.ft. 18-in.	.25	.25	.32
90 lin.ft. 15-in.	.18	.20	.27
210 lin.ft. 12-in.	.12	.20	.20
30 lin.ft. 24-in.	.40	.20	.47
Extended totals concrete pavement 6-8 in. thick with machine-made cement pipe	$54,316	$56,096	$63,714
Extended totals bituminous concrete pavement, 2-in. top, 4-6 in. concrete base machine-made cement pipe	.....	.....	$74,585